

# UNIVERSITY OF ILLINOIS ANNUAL REGISTER

1920-1921



THE UNIVERSITY  
OF ILLINOIS  
LIBRARY

C  
I 6 u H  
1920/21



Return this book on or before the  
**Latest Date** indicated below.

Library

0 1 1986

Digitized by the Internet Archive  
in 2011 with funding from  
University of Illinois Urbana-Champaign







Learning and Labor

# University of Illinois

## ANNUAL REGISTER 1920-1921

General Announcements, 1921-1922  
Faculty and Courses, 1920-1921  
Students, 1920-1921

URBANA  
PUBLISHED BY THE UNIVERSITY  
FEBRUARY, 1921



*C*  
*Ilbu H*  
*1920/21*  
*cop 32*

## CONTENTS

---

UNIVERSITY CALENDAR.....	5
BOARD OF TRUSTEES.....	10
ADVISORY BOARDS.....	11
OFFICERS OF ADMINISTRATION AND INSTRUCTION.....	13
PART I. GENERAL INFORMATION.....	45
Location.....	45
History.....	46
Equipment.....	52
Administration.....	66
Admission.....	69
Graduation: First Degrees.....	90
Honors and Competitions.....	92
Lectures and Other General Exercises.....	95
Associations, Societies, and Clubs.....	101
Undergraduate Scholarships.....	105
Beneficiary Aid.....	110
Fees and Expenses.....	113
PART II. THE COLLEGES AND SCHOOLS.....	119
The College of Liberal Arts and Sciences.....	119
The College of Commerce and Business Administration.....	134
The College of Engineering.....	143
The College of Agriculture.....	160
The Graduate School.....	171
The Library School.....	184
The School of Music.....	187
The College of Education.....	189
The School of Railway Engineering and Administration.....	199
Military Science.....	200
Physical Education.....	202
The Summer Session.....	203
The College of Law.....	207
The College of Medicine.....	212
The College of Dentistry.....	236
The School of Pharmacy.....	248
PART III. GENERAL DESCRIPTION OF COURSES.....	253
PART IV. THE UNIVERSITY PRESS.....	421
PART V. UNIVERSITY EXTENSION.....	425
PART VI. EXPERIMENT STATIONS AND OTHER SCIENTIFIC BUREAUS.....	433
PART VII. LIST OF STUDENTS, DEGREES, ETC.....	
Students, 1920-21.....	445
Degrees Conferred, 1920.....	569
Fellows and Scholars.....	585
Honors.....	586
Directory of Alumni Associations.....	596
INDEXES.....	599

# CALENDAR 1920, 1921, 1922

1920

JULY						
S	M	T	W	T	F	S
...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
...	...	...	...	...	...	...

AUGUST						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	...	...	...	...
...	...	...	...	...	...	...

SEPTEMBER						
S	M	T	W	T	F	S
...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	...
...	...	...	...	...	...	...

OCTOBER						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

NOVEMBER						
S	M	T	W	T	F	S
...	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	...	...	...	...
...	...	...	...	...	...	...

DECEMBER						
S	M	T	W	T	F	S
...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
...	...	...	...	...	...	...

1921

JANUARY						
S	M	T	W	T	F	S
...	...	...	...	...	...	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	...	...	...	...	...

FEBRUARY						
S	M	T	W	T	F	S
...	...	...	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	...	...	...	...
...	...	...	...	...	...	...

MARCH						
S	M	T	W	T	F	S
...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
...	...	...	...	...	...	...

APRIL						
S	M	T	W	T	F	S
...	...	...	...	...	...	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	...	...	...	...	...	...

MAY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	...	...	...	...
...	...	...	...	...	...	...

JUNE						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
...	...	...	...	...	...	...

JULY						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

AUGUST						
S	M	T	W	T	F	S
...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
...	...	...	...	...	...	...

SEPTEMBER						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
...	...	...	...	...	...	...

OCTOBER						
S	M	T	W	T	F	S
...	...	...	...	...	...	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	...	...	...	...	...

NOVEMBER						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
...	...	...	...	...	...	...

DECEMBER						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

1922

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	...	...	...	...
...	...	...	...	...	...	...

FEBRUARY						
S	M	T	W	T	F	S
...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	...	...	...
...	...	...	...	...	...	...

MARCH						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

APRIL						
S	M	T	W	T	F	S
...	...	...	...	...	...	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	...	...	...	...	...	...

MAY						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

JUNE						
S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
...	...	...	...	...	...	...

# THE UNIVERSITY CALENDAR

1920-1921-1922

## FIRST SEMESTER, 1920-1921

Sept. 14, Tues., 10 a. m.	Quarterly meeting of the Board of Trustees.
Sept. 13-17, Mon.-Fri.	Entrance examinations.
Sept. 15, Wed.	Scholarship examination for second nominees.
Sept. 15-17, Wed.-Fri.	Entrance examinations, Chicago Professional Schools
SEPT. 20-21, MON.-TUES.	REGISTRATION DAYS
Sept. 21-23, Tues.-Thurs.	Examinations for removal of conditions, Chicago Professional Schools
Sept. 22, Wed., 8 a. m.	Instruction begun
4 p. m.	Freshman convocation
Sept. 22-24, Wed.-Fri.	Entrance Examinations, departments in Chicago
Sept. 24-25, Fri.-Sat.	Registration begun, Chicago Professional Schools
Sept. 25, Sat.	Assignments in the Brigade posted (Engineering Building, first floor, west end)
Sept. 27, Mon.	Military Drill and Hygiene lectures (Phys. Ed. 1a and 9) begun
Sept. 27, Mon., 8 a. m.	First semester begun, Chicago Professional Schools
Oct. 2, Sat., 5 p. m.	Latest day for rebates in full and for change of study-list without fee
	Registration closed, Colleges of Medicine and Dentistry
Oct. 4, Mon., 4 p. m.	Senate meeting
Oct. 15, Fri.	Assignment of vacant scholarships in agriculture and home economics
Oct. 21-23, Thurs.-Sat.	Inspection trips, Architecture and Architectural Engineering
Oct. 22, Fri.	Latest day for removal of "incompletes"
Nov. 1, Mon., 5 p. m.	Latest day for announcement of subjects for all undergraduate and graduate theses
Nov. 18-20, Thurs.-Sat.	High school conference
	Home economics inspection trip
Nov. 20, Sat.	Latest day for rebate of one-half fees
Nov. 22-24, Mon.-Wed.	Inspection trips, College of Engineering (except Architecture and Architectural Engineering)
Nov. 24, Wed., 12 m.	Thanksgiving recess begun, Chicago Professional Schools
Nov. 25, Thurs.	Thanksgiving Day
Nov. 29, Mon., 8 a. m.	Instruction resumed, Chicago Professional Schools
Dec. 3, Fri.	Illinois Day
Dec. 6, Mon., 4 p. m.	Senate meeting
Dec. 14, Tues., 10 a. m.	Quarterly meeting of the Board of Trustees
8 p. m.	Christmas concert

Dec. 10 Fri., 8 p. m.

**Dec. 22, Wed., 11 a. m.**

Dec. 23, Thurs., 6 p. m.

Dec. 31, Fri., 5 p. m.

Iowa-Minnesota-Illinois debates

Junior promenade

**Holiday recess begun**

Holiday recess begun, Chicago Professional Schools

Latest day for submission of outlines of theses by candidates for professional degrees in engineering.

## 1921

**Jan. 3, Mon., 8 a. m.**

1 p. m.

Instruction resumed, Chicago Professional Schools

**Instruction resumed**

Jan. 10-22

Short courses in agriculture and home economics

Jan. 22, Sat.

Semester examinations begun

Feb. 7, Mon., 4 p. m.

Senate meeting

Jan. 31-Feb. 4, Mon.-Fri.

Semester examinations, Chicago Professional Schools

Feb. 2-5, Wed.-Sat.

Entrance examinations

Feb. 2, Wed.

Semester examinations ended

## SECOND SEMESTER, 1920-1921

Feb. 7, Mon., 8 a. m.

Second semester begun, Chicago Professional Schools

**FEB. 7-8, MON.-TUES.**

REGISTRATION DAYS

**Feb. 9, Wed., 8 a. m.**

**Instruction begun**

Feb. 12, Sat.

Lincoln Day

Feb. 19, Sat.

Last day for rebates in full and for change of student without fee

Feb. 22, Tues.

Washington Day

Feb. 25, Fri.

Military Ball

Mar. 2, Wed.

University Day

Mar. 4, Fri.

Annual Band Concert

Mar. 8, Tues.

Annual meeting of the Board of Trustees

Mar. 11, Fri.

Latest day for removal of "incompletes" and for removal by seniors of first semester failures

Mar. 18, Fri.

Michigan-Illinois-Wisconsin debate

Mar. 23, Wed., 6 p. m.

Easter recess begun, Chicago Professional Schools

**Mar. 24, Thurs., 11 a. m.**

**Easter recess begun**

Mar. 28, Mon., 8 a. m.

Instruction resumed, Chicago Professional Schools

**Mar. 29, Tues., 1 p. m.**

**Instruction resumed**

Apr. 1, Fri., 5 p. m.

Latest day for filing of completed theses by candidates for professional degrees in engineering.

Apr. 4, Mon., 4 p. m.

Senate meeting.

Apr. 9, Sat., 5 p. m.

Latest day for rebates of one-half fees

May 6, Fri.

Northern Oratorical League contest

May, between 15 and 31

Hazelton prize drill

Annual inspection

Company competitive drill

May 14, Sat., 12 m.

Latest day for the receipt by the Dean of the Graduate School of certified copies of doctors' theses

May 17, Tues.

Time limit on special examinations effective

May 19-21, Thurs.-Sat.

Public school art exhibit

May 20, Fri.

Interscholastic oratorical contest

May 21, Sat.

Interscholastic athletic meet

May 28, Sat.

Military Day

Final examinations begun



May 30, Mon.	Memorial Day
May 31, Tues.,—June 10, Fri.	Final examinations, Chicago Professional Schools
June 4, Sat.	Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
June 6, Mon.	Latest day for acceptance of undergraduate theses
4 p. m.	Senate meeting
June 8, Wed.	Final examinations ended
June 10, Fri.	Class day, College of Dentistry
	Class day, and alumni meeting, College of Medicine
June 12, Sun.	Baccalaureate address
June 13, Mon.	Class day
8:30 p. m.	Senior ball
June 14, Tues.	Alumni day
10 a. m.	Quarterly meeting of the Board of Trustees
JUNE 15, WED.	FIFTIETH ANNUAL COMMENCEMENT

**SUMMER SESSION, 1921**

JUNE 20, MON.	REGISTRATION DAY
June 21, Tues., 8 a. m.	Instruction begun
June 27, Mon., 5 p. m.	Latest day for rebates in full
July 16, Sat., 12 m.	Latest day for rebates of one-half fees
Aug. 12-13, Fri.-Sat.	Final examinations

**FIRST SEMESTER, 1921-1922.**

Sept. 13, Tues., 10 a. m.	Quarterly meeting of the Board of Trustees
Sept. 12-16, Mon.-Fri.	Entrance examinations
Sept. 14, Wed.	Scholarship examination for second nominees.
Sept. 12-16, Mon.-Fri.	Entrance examinations, Chicago Professional Schools
SEPT. 19-20, MON.-TUES.	REGISTRATION DAYS
Sept. 20-22, Tues.-Thurs.	Examinations for removal of conditions, Chicago Professional Schools
Sept. 21, Wed., 8 a. m.	Instruction begun
4 p. m.	Freshman convocation
Sept. 23-24, Fri.-Sat.	Registration begun, Chicago Professional Schools
Sept. 24, Sat.	Assignments in the Brigade posted (Engineering Building, first floor, west end)
Sept. 26, Mon.	Military Drill and Hygiene lectures (Phys. Ed. 1 and 7a and Hygiene 1) begun
Sept. 26, Mon., 8 a. m.	First semester begun, Chicago Professional Schools
Oct. 1, Sat., 5 p. m.	Latest day for rebates in full and for change of study-list without fee
	Registration closed, Colleges of Medicine and Dentistry
Oct. 3, Mon., 4 p. m.	Senate meeting
Oct. 13-15, Thurs.-Sat.	Inspection trip, College of Engineering
Oct. 15, Sat.	Assignment of vacant scholarships in agriculture and home economics
Oct. 20-22, Thurs.-Sat.	Inspection trips, Architecture and Architectural Engineering
Nov. 7, Mon., 5 p. m.	Latest day for announcement of subjects for all undergraduate and graduate theses

Nov. 11, Fri.	Armistice Day convocation
Nov. 17-19, Thurs.-Sat.	High school conference
	Home economics inspection trip
Nov. 19, Sat.	Latest day for rebate of one-half fees
Nov. 21-23, Mon.-Wed.	Inspection trips, College of Engineering (except Architecture and Architectural Engineering)
Nov. 23, Wed., 12 m.	Thanksgiving recess begun, Chicago Professional Schools
Nov. 24, Thurs.	Thanksgiving Day
Nov. 28, Mon., 8 a. m.	Instruction resumed, Chicago Professional Schools
Dec. 3, Sat.	Illinois Day
Dec. 5, Mon., 4 p. m.	Senate meeting
Dec. 9, Fri., 8 p. m.	Iowa-Minnesota-Illinois debates
	Junior promenade
Dec. 13, Tues., 10 a. m.	Quarterly meeting of the Board of Trustees
	Christmas concert
<b>Dec. 22, Thurs. 11 a. m.</b>	<b>Holiday recess begun</b>
Dec. 23, Fri., 6 p. m.	Holiday recess begun, Chicago Professional Schools
Dec. 31, Sat. 5 p. m.	Latest day for submission of outlines of theses by candidates for professional degrees in engineer- ing

**1922**

<b>Jan. 3, Tues., 8 a. m.</b>	Instruction resumed, Chicago Professional Schools
<b>1 p. m.</b>	<b>Instruction resumed</b>
Jan. 9-21	Short courses in agriculture and home economics
Jan. 10, Tues.	Time limit on special examinations effective
Jan. 21, Sat.	Semester examinations begun
Feb. 6, Mon., 4 p. m.	Senate meeting
Jan. 30-Feb. 3, Mon.-Fri.	Semester examinations, Chicago Professional Schools
Feb. 1-4, Wed.-Sat.	Entrance examinations
Feb. 1, Wed.	Semester examinations ended

**SECOND SEMESTER, 1921-1922**

Feb. 6, Mon., 8 a. m.	Second semester begun, Chicago Professional schools
<b>FEB. 6-7, MON.-TUES.</b>	<b>REGISTRATION DAYS</b>
<b>FEB. 8, Wed., 8 a. m.</b>	<b>Instruction begun</b>
Feb. 12, Sun.	Lincoln Day
Feb. 13, Mon.	Time limit on special examinations expires
Feb. 18, Sat.	Last day for rebates in full and for change of study- list without fee
Feb. 22, Wed.	Washington Day
Feb. 24, Fri.	Military Ball
Mar. 2, Thurs.	University Day
Mar. 3, Fri.	Annual Band Concert
Mar. 10, Fri.	Latest day for removal of "incompletes" and for removal by seniors of first semester failures
Mar. 14, Tues.	Annual meeting of the Board of Trustees
Mar. 17, Fri.	Michigan-Illinois-Wisconsin debate
Apr. 1, Sat., 5 p. m.	Latest day for filing of completed theses by candi- dates for professional degrees in engineering.
Apr. 3, Mon., 4 p. m.	Senate meeting

Apr. 8, Sat., 5 p. m.	Latest day for rebates of one-half fees
Apr. 12, Wed., 6 p. m.	Easter recess begun, Chicago Professional Schools
Apr. 13, Thurs., 11 a. m.	<b>Easter recess begun</b>
Apr. 17, Mon., 8 a. m.	Instruction resumed, Chicago Professional Schools
Apr. 18, Tues., 1 p. m.	<b>Instruction resumed</b>
May 6, Fri.	Northern Oratorical League contest
May, between 15 and 31	Hazelton prize drill
	Annual inspection
	Company competitive drill
May 13, Sat., 12 m.	Latest day for the receipt by the Dean of the Graduate School of certified copies of doctors' theses
May 16, Tues.	Time limit on special examinations effective
May 18-20	Public school art exhibit
May 19, Fri.	Interscholastic oratorical contest
May 20, Sat.	Interscholastic athletic meet
May 27, Sat.	Final examinations begun
May 30, Tues.	Memorial Day. Military Day.
May 30, Tues.-June 9, Fri.	Final examinations, Chicago Professional Schools
June 3, Sat.	Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
June 5, Mon.	Latest day for acceptance of undergraduate theses
	Senate meeting
	Final examinations ended
June 7, Wed.	Class day, College of Dentistry
June 9, Fri.	Class day, and alumni meeting, College of Medicine
June 11, Sun.	Baccalaureate address
June 12, Mon.	Class day
	Senior ball
June 13, Tues.	Alumni day
	Quarterly meeting of the Board of Trustees
June 14, WED.	<b>FIFTY-FIRST ANNUAL COMMENCEMENT</b>

# THE BOARD OF TRUSTEES

---

## MEMBERS EX OFFICIO

### The Governor of Illinois

HON. LEN SMALL.....*Springfield*

### The Superintendent of Public Instruction

HON. FRANCIS G. BLAIR.....*Springfield*

## ELECTED MEMBERS

(Term 1915-1921)

ROBERT F. CARR.....*2005 McCormick Building, Chicago*

LAURA B. EVANS.....*Taylorville*

ROBERT R. WARD.....*Benton*

(Term 1917-1923)

WILLIAM L. ABBOTT.....*72 West Adams Street, Chicago*

MARY E. BUSEY.....*Urbana*

OTIS W. HOIT.....*Geneseo*

(Term 1919-1925)

JOHN M. HERBERT.....*Murphysboro*

CAIRO A. TRIMBLE.....*Princeton*

MARGARET D. BLAKE.....*25 E. Walton Place, Chicago*

## OFFICERS OF THE BOARD

ROBERT F. CARR, 2005 McCormick Building, Chicago.....President

HARRISON E. CUNNINGHAM, Urbana.....Secretary

HAZEN S. CAPRON, Champaign.....Treasurer

LLOYD MOREY, Urbana.....Comptroller

## COMMITTEES OF THE BOARD

---

### Executive Committee

Robert F. Carr, Chairman; William L. Abbott, Otis W. Hoit.

### Standing Committees

*Buildings and Grounds*—William L. Abbott, Chairman; Laura B. Evans, Robert F. Carr, Robert R. Ward, Margaret Day Blake.

*Finance*—Cairo A. Trimble, Chairman; Mary E. Busey, Otis W. Hoit, Robert R. Ward, John M. Herbert.

*Engineering*—Otis W. Hoit, Chairman; William L. Abbott, Cairo A. Trimble.

*Agriculture*—Robert R. Ward, Chairman; Otis W. Hoit, John M. Herbert.

*College of Medicine and School of Pharmacy*—Robert F. Carr, Chairman; William L. Abbott, Margaret Day Blake.

*Students' Welfare*—Laura B. Evans, Chairman; Mary E. Busey, Margaret Day Blake.

*Instruction*—Francis G. Blair, Chairman; Robert R. Ward, John M. Herbert.

*Library*—Mary E. Busey, Chairman; Laura B. Evans, Cairo A. Trimble.

# ADVISORY BOARDS

## COLLEGE OF LAW

JOHN G. DRENNAN.....	<i>Chicago</i>
WILLIAM R. HUNTER.....	<i>Kankakee</i>
WALTER C. LINDLEY.....	<i>Danville</i>
GEORGE T. PAGE.....	<i>Peoria</i>
PETER P. SCHAEFER.....	<i>Champaign</i>

## SCHOOL OF PHARMACY

G. E. BAUMANN.....	<i>Springfield</i>
O. U. SISSON.....	<i>Chicago</i>
JOHN H. HARSCH.....	<i>Peoria</i>
P. D. ROARK.....	<i>Macomb</i>
BYRON ARMSTRONG.....	<i>Jacksonville</i>

## DEPARTMENT OF CERAMIC ENGINEERING

F. W. BUTTERWORTH.....	<i>Danville</i>
A. W. GATES.....	<i>Monmouth</i>
W. D. GATES.....	<i>Chicago</i>
J. W. STIPES.....	<i>Champaign</i>
THEODORE G. DICKINSON.....	<i>Chicago</i>

## COLLEGE OF ENGINEERING FOR THE RAILWAY INDUSTRIES OF ILLINOIS

R. H. AISHTON.....	<i>Chicago</i>
C. H. MARKHAM.....	<i>Chicago</i>
W. G. BIERD.....	<i>Chicago</i>
HALE HOLDEN.....	<i>Chicago</i>
W. B. STOREY.....	<i>Chicago</i>

## AGRICULTURAL EXPERIMENT STATION

### *Dairy Husbandry Section—*

CHARLES FOSS.....	<i>Cedarville</i>
JOSEPH NEWMAN.....	<i>Elgin</i>
R. B. SWIFT.....	<i>Libertyville</i>
F. G. AUSTIN.....	<i>Effingham</i>
J. P. MASON.....	<i>Elgin</i>

*Farm Crops Section—*

CHARLES A. ROWE.....	Jacksonville
A. C. RICE.....	Jacksonville
H. J. SCONCE.....	Sidell
G. C. OUTTEN.....	Mt. Zion
WILLIAM WEBB.....	Lockport

*Floriculture Section—*

H. E. SMITH.....	Danville
J. C. VAUGHN.....	Chicago
W. N. RUDD.....	Morgan Park
F. L. WASHBURN.....	Bloomington
J. F. AMMANN.....	Edwardsville

*Horticulture Section—*

J. MACK TANNER.....	Flora
H. A. ALDRICH.....	Neoga
H. N. DUNLAP.....	Savoy
AUGUST GEWEKE.....	Des Plaines
W. S. PERRINE.....	Centralia

*Live-Stock Section—*

F. E. DRURY.....	Jacksonville
JOSEPH FULKERSON.....	Jerseyville
M. P. LANTZ.....	Carlock
C. J. McMASTERS.....	Altona
CHARLES R. TAYLOR.....	Williamsville

*Soils Section—*

RALPH ALLEN.....	Delavan
J. P. MASON.....	Elgin
C. V. GREGORY.....	Chicago
F. I. MANN.....	Gilman
A. N. ABBOTT.....	Morrison

# ADMINISTRATIVE OFFICERS

---

President of the University

DAVID KINLEY, Ph.D., LL.D.

## THE COUNCIL OF ADMINISTRATION

DAVID KINLEY, Ph.D., LL.D., *President*

EUGENE DAVENPORT, M.Agr., LL.D., *Vice-President, Dean of the College of Agriculture, Director of Agricultural Extension Service, and Professor of Threnmatology*

THOMAS ARKLE CLARK, B.L., *Dean of Men and Professor of Rhetoric*

OLIVER ALBERT HARKER, A.M., LL.D., *Acting Dean of the College of Law and Professor of Law*

KENDRIC CHARLES BABCOCK, B.Lit., Ph.D., LL.D., *Provost, Dean of the College of Liberal Arts and Sciences*

FREDERICK BROWN MOOREHEAD, A.B., D.D.S., M.D., *Dean of the College of Dentistry and Professor of Oral Surgery and Pathology*

ALBERT CHAUNCEY EYCLESHYMER, Ph.D., M.D., *Dean of the College of Medicine, Professor of Anatomy, and Head of the Department of Anatomy*

CHARLES RUSS RICHARDS, M.E., M.M.E., D. Eng., *Dean of the College of Engineering and Director of the School of Railway Engineering and Administration*

ARTHUR HILL DANIELS, Ph.D., *Acting Dean of the Graduate School and Professor of Philosophy*

RUBY ELIZABETH CAMPBELL MASON, A.M., *Dean of Women*

CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Dean of the College of Education*

CHARLES MANFRED THOMPSON, Ph.D., *Dean of the College of Commerce and Business Administration and Professor of Economics*

## GENERAL ADMINISTRATIVE OFFICERS

---

### THE PRESIDENT'S OFFICE

DAVID KINLEY, Ph.D., LL.D., *President*

THOMAS ARKLE CLARK, B.S., Captain I.N.G., *Adjutant to the President in Military Affairs*

CHARLES MAXWELL MCCONN, A.M., *Assistant to the President and Private Secretary*

### THE VICE-PRESIDENT'S OFFICE

EUGENE DAVENPORT, M.Agr. LL.D., *Vice-President*

### THE PROVOST'S OFFICE

KENDRIC CHARLES BABCOCK, B.Litt., Ph.D., LL.D., *Provost*

### THE OFFICE OF THE SUPERINTENDENT OF BUSINESS OPERATION

JAMES McLAREN WHITE, B.S., *Superintendent of Business Operation*

### THE REGISTRAR'S OFFICE

GEORGE PHILIP TUTTLE, JR., B.S., *Registrar*

LEVI AUGUSTUS BOICE, *Recorder*

JAMES ORTON HUFF, A.M., *Examiner*

DONALD ASHWAY GROSSMAN, LL.B., *Assistant Examiner*

**THE BUSINESS OFFICE**

LLOYD MOREY, A.B., B.Mus., C.P.A., *Comptroller*  
FRANK HERMAN BEACH, A.B., *Auditor*  
HORACE BALLOU INGALLS, B.S., *Bursar*  
HAROLD MORTIMER EDWARDS, LL.B., *Purchasing Agent*

**THE DEAN OF MEN'S OFFICE**

THOMAS ARKLE CLARK, B.L., *Dean*  
HORACE BRYAN GARMAN, A.B., *Assistant Dean*

**THE DEAN OF WOMEN'S OFFICE**

RUBY ELIZABETH CAMPBELL MASON, A.M., *Dean*

**THE ASSISTANT DEAN OF FOREIGN STUDENTS' OFFICE**

DAVID HOBART CARNAHAN, Ph.D., *Assistant Dean of Men for Foreign Students*

**THE HIGH SCHOOL VISITOR'S OFFICE**

HORACE ADELBERT HOLLISTER, A.M., *High School Visitor*  
ARTHUR WILBUR CLEVINGER, A.M., *Assistant High School Visitor*  
HAROLD D TRIMBLE, A.M., *Assistant High School Visitor*

**THE UNIVERSITY PRESS**

HARRISON EDWARD CUNNINGHAM, A.B., *Director of the Press and the Information Office*

**THE SUPERVISING ARCHITECT'S OFFICE**

JAMES McLAREN WHITE, B.S., *Supervising Architect and Superintendent of Business Operation*  
JOSEPH MORROW, *Superintendent of Buildings*  
EVELYN ATKINSON, *Superintendent of Grounds*

**DEPARTMENT OF HYGIENE AND PUBLIC HEALTH**

JOSEPH HOWARD BEARD, A.M., M.D., *Health Officer*  
GERTRUDE E MOULTON, M.D., *Medical Adviser to Women*  
MAX LAMPERT, M.D., *Medical Adviser to Men*

**THE DEPARTMENT OF PHYSICAL EDUCATION FOR MEN**

GEORGE A HUFF, B.S., *Director*

**THE DEPARTMENT OF PHYSICAL EDUCATION FOR WOMEN**

VERNA BROOKS, A.B., B.S., *Acting Director*

**MILITARY DEPARTMENT, R. O. T. C**

GEORGE FREDERICK NEY DAILEY, Major, *Commandant*



THE UNIVERSITY LIBRARY

PHINEAS LAWRENCE WINDSOR, Ph.B., *Director*

CURATORS

FRANK COLLINS BAKER, B.S., *Curator of the Museum of Natural History*

ARTHUR STANLEY PEASE, Ph.D., *Professor of the Classics and Curator of the Museum of Classical Art and Archeology*

NEIL CONWELL BROOKS, Ph.D., *Assistant Professor of German and Curator of the Museum of European Culture*

ALBERT TEN EVCK OLMSTEAD, Ph.D., *Professor of History and Curator of the Oriental Museum*

## THE COLLEGES AND SCHOOLS

---

THE COLLEGE OF LIBERAL ARTS AND SCIENCES

KENDRIC CHARLES BABCOCK, B.Lit., Ph.D., LL.D., *Dean*

HOWARD VERNON CANTER, Ph.D., *Assistant Dean*

THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

CHARLES MANFRED THOMPSON, Ph.D., *Dean*

ANANIAS CHARLES LITTLETON, A.M., C.P.A., *Assistant Dean*

THE COLLEGE OF ENGINEERING

CHARLES RUSS RICHARDS, M.E., M.M.E., D. Eng., *Dean*

HARVEY HERBERT JORDAN, B.S., *Assistant Dean*

THE COLLEGE OF AGRICULTURE

EUGENE DAVENPORT, M.Agr., LL.D., *Dean*

FRED HENRY RANKIN, B.S., *Assistant to the Dean*

THE COLLEGE OF LAW

OLIVER ALBERT HARKER, A.M., LL.D., *Acting Dean*

THE GRADUATE SCHOOL

ARTHUR HILL DANIELS, Ph.D., *Acting Dean*

THE LIBRARY SCHOOL

PHINEAS LAWRENCE WINDSOR, Ph.B., *Director*

FRANCES SIMPSON, M.L., B.L. S., *Assistant Director*

THE COLLEGE OF EDUCATION

CHARLES ERNEST CHADSEY, Ph.D., *Dean*

## THE SCHOOL OF MUSIC

JOHN LAWRENCE ERB, F.A.G.O., *Director*THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION<sup>1</sup>CHARLES RUSS RICHARDS, M.E., M.M.E., D. Eng., *Director*

## THE SUMMER SESSION, 1920

CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Director*

## THE COLLEGE OF MEDICINE

ALBERT CHAUNCEY EYCLESHYMER, B.S., Ph.D., M.D., *Dean*WILLIAM HENRY BROWNE, *Secretary*

## THE COLLEGE OF DENTISTRY

FREDERICK BROWN MOOREHEAD, A.B., D.D.S., M.D., *Dean*NEWTON GEORGE THOMAS, A.M., D.D.S., *Secretary*

## THE SCHOOL OF PHARMACY

WILLIAM BAKER DAY, Ph.G., *Dean and Secretary*

---

<sup>1</sup>This School has been inactive during the year 1920-21.

# OFFICERS OF INSTRUCTION

## THE SENATE<sup>1</sup>

- DAVID KINLEY, Ph.D., LL.D., *President*  
EDMUND JANES JAMES, Ph.D., LL.D., *President, Emeritus*  
NATHAN CLIFFORD RICKER, D.Arch., *Professor of Architecture, Emeritus*  
IRA OSBORN BAKER, C.E., D.Eng., *Professor of Civil Engineering and Acting Head of the Department*  
STEPHEN ALFRED FORBES, Ph.D., LL.D., *Professor of Entomology*  
CHARLES WESLEY ROLFE, M.S., *Professor of Geology, Emeritus*  
ARTHUR NEWELL TALBOT, C.E., D.Sc., D.Eng., *Professor of Municipal and Sanitary Engineering, in charge of Theoretical and Applied Mechanics*  
SAMUEL WILSON PARR, M.S., *Professor of Applied Chemistry*  
HERBERT JEWETT BARTON, A.M., *Professor of the Latin Language and Literature, Chairman of the Department of the Classics, and Secretary of the Senate.*  
CHARLES MELVILLE MOSS, Ph.D., *Professor of the Greek Language and Literature, Emeritus*  
DANIEL KILHAM DODGE, Ph.D., *Professor of the English Language and Literature*  
EUGENE DAVENPORT, M.Agr., LL.D., *Professor of Thremmatology, Vice-President, Dean of the College of Agriculture, Director of the Agricultural Experiment Station, and Director of Agricultural Extension Service*  
ALBERT PRUDEN CARMAN, D.Sc., *Professor of Physics and Head of the Department*  
EVARTS BOUTELL GREENE,<sup>2</sup> Ph.D., *Professor of History*  
THOMAS ARELE CLARK, B.L., *Professor of Rhetoric and Dean of Men*  
ARTHUR HILL DANIELS, Ph.D., *Professor of Philosophy, Acting Dean of the Graduate School*  
NEWTON ALONZO WELLS, M.P., *Professor of Architectural Decoration, Emeritus*  
ISABEL BEVIER, Ph.M., D.Sc., *Professor of Home Economics and Director of the Courses in Home Economics*  
MORGAN BROOKS, Ph.B., M.E., *Professor of Electrical Engineering*  
GEORGE A HUFF, B.S., *Director of Physical Education for Men*  
JAMES McLAREN WHITE, B.S., *Professor of Architectural Engineering, Supervising Architect, and Superintendent of Business Operation*  
HERBERT WINDSOR MUMFORD<sup>3</sup>, B.S., *Professor of Animal Husbandry and Head of the Department*  
MAURICE HENRY ROBINSON, Ph.D., *Professor of Industry and Transportation*  
JOSEPH CULLEN BLAIR, M.S., D.Sc., *Professor of Horticulture and Head of the Department*  
HORACE ADELBERT HOLLISTER, A.M., *Professor of Education and High School Visitor*  
OLIVER ALBERT HARKER, A.M., LL.D., *Professor of Law, Acting Dean of the College of Law, and Legal Counsel*  
EDWARD JOHN LAKE, B.S., *Assistant Professor of Art and Design and Acting Head of the Department*  
THOMAS EDWARD OLIVER, Ph.D., *Professor of Romance Languages*  
WILBER JOHN FRASER, M.S., *Professor of Dairy Farming*  
FREDERICK GREEN, A.M., LL.B., *Professor of Law*  
HARRY SANDS GRINDLEY, D.Sc., *Professor of Animal Nutrition*  
JAMES WILFORD GARNER<sup>4</sup>, Ph.D., *Professor of Political Science and Head of the Department*

<sup>1</sup>The Senate is composed of all University officers of full professorial rank and all others in charge of independent departments of instruction. The order is that of seniority. For index of names, see p. 599.

<sup>2</sup>On leave of absence, second semester.

<sup>3</sup>On leave of absence, until March, 1922

<sup>4</sup>On leave of absence.

- EDGAR JEROME TOWNSEND, Ph.D., LL.D., *Professor of Mathematics and Head of the Department*
- EDWARD BARTOW, Ph.D., *Consulting Professor of Sanitary Chemistry*
- WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor of Chemistry and Director of the Chemical Laboratory*
- GEORGE ABRAM MILLER, Ph.D., *Professor of Mathematics*
- EDWARD CARY HAYES, Ph.D., LL.D., *Professor of Sociology and Head of the Department*
- JULIUS GOEBEL, Ph.D., *Professor of German and Head of the Department*
- GEORGE ALFRED GOODENOUGH, M.E., *Professor of Thermodynamics*
- PHINEAS LAWRENCE WINDSOR, Ph.B., *Director of the Library and the Library School*
- BOYD HENRY BODE, Ph.D., *Professor of Philosophy*
- HENRY BALDWIN WARD, Ph.D., D.Sc., *Professor of Zoology and Head of the Department*
- HARRY HARKNESS STOEK, E.M., D.Sc., *Professor of Mining Engineering and Head of the Department*
- STUART PRATT SHERMAN, Ph.D., *Professor of English and Chairman of the Department*
- CHARLES RUSS RICHARDS, M.E., M.M.E., D.Eng., *Dean of the College of Engineering and Director of the Engineering Experiment Station*
- JOHN WILLIAM LLOYD, Ph.D., *Professor of Olericulture*
- CHARLES SPENCER CRANDALL, M.S., *Professor of Pomology*
- JOHN ARCHIBALD FAIRLIE, Ph.D., *Professor of Political Science*
- JEREMIAH GEORGE MOSIER,<sup>1</sup> B.S., *Professor of Soil Physics*
- JOHN NORTON POMEROY,<sup>1</sup> A. M., LL.B., *Professor of Law*
- LOUIE HENRIE SMITH, Ph.D., *Chief in Charge of Publications in Soil Survey in Agricultural Experiment Station*
- BRUCE WILLET BENEDICT, B.S., *Manager of Shop Laboratories in the Department of Mechanical Engineering*
- WILLIAM EDWARD BURGE, Ph.D., *Associate Professor of Physiology and Acting Head of the Department*
- ERNEST LUDLOW BOGART, Ph.D., *Professor of Economics and Head of the Department*
- MADISON BENTLEY, Ph.D., *Professor of Psychology and Head of Psychology Laboratory*
- CHARLES FREDERICK HOTTES, Ph.D., *Professor of Plant Physiology*
- HARRY ALEXIS HARDING, Ph.D., *Professor of Dairy Bacteriology*
- KENDRIC CHARLES BABCOCK, B.Lit., Ph.D., LL.D., *Dean of the College of Liberal Arts and Sciences, and Provost*
- WILLIAM TRELEASE, D.Sc., LL.D., *Professor of Botany and Acting Head of the Department*
- JOHN STERLING KINGSLEY, D.Sc., *Professor of Zoology*
- WILLIAM SHIRLEY BAYLEY, Ph.D., *Professor of Geology*
- WALTER CASTELLA COFFEY, M.S., *Professor of Sheep Husbandry and Acting Head of the Department of Animal Husbandry*
- LAURENCE MARCELLUS LARSON, Ph.D., *Professor of History and Head of the Department*
- OTTO EDUARD LESSING, Ph.D., *Professor of German*
- ELLERY BURTON PAINE, M.S., E.E., *Professor of Electrical Engineering and Head of the Department*
- FRANK SMITH, A.M., *Professor of Systematic Zoology*
- JOEL STEBBINS, Ph.D., D.Sc., *Professor of Astronomy*
- EDWARD WIGHT WASHBURN, Ph.D., *Professor of Ceramic Chemistry and Head of the Department of Ceramic Engineering*
- LORING HARVEY PROVINE, B.S., A.E., *Professor of Architectural Engineering and Head of the Department of Architecture*

<sup>1</sup>On leave of absence.

- FRANK LINCOLN STEVENS, Ph.D., *Professor of Plant Pathology*  
 JOHN LAWRENCE ERB, F.A.G.O., *Director of the School of Music and University Organist*  
 KENNETH MCKENZIE, Ph.D., *Professor of Romance Languages and Head of the Department*  
 WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor of the Classics*  
 JOHN DRISCOLL FITZ-GERALD, Ph.D., Litt.D., *Professor of Spanish*  
 CHARLES ALTON ELLIS, A.B., *Professor of Structural Engineering*  
 OSCAR ADOLPH LEUTWILER, M.E., *Professor of Machine Design*  
 ARTHUR STANLEY PEASE, Ph.D., *Professor of the Classics and Curator of the Museum of Classical Art and Archeology*  
 NATHAN AUSTIN WESTON, Ph.D., *Professor of Economics*  
 CHARLES ZELNY, Ph.D., *Professor of Zoology*  
 ALBERT HOWE LYBYER, Ph.D., *Professor of History*  
 ERNEST BERNAUM, Ph.D., *Professor of English*  
 CULLEN WARNER PARMELEE, B.S., *Professor of Ceramic Engineering*  
 DAVID HOBART CARNAHAN, Ph.D., *Professor of Romance Languages and Assistant Dean of Men for Foreign Students*  
 ALEXANDER DYER MACGILLIVRAY, Ph.D., *Professor of Systematic Entomology*  
 CHARLES TOBIAS KNIPP, Ph.D., *Professor of Experimental Electricity*  
 FLOYD ROWE WATSON, Ph.D., *Professor of Experimental Physics*  
 ALBERT TEN EYCK OLMSTEAD, Ph.D., *Professor of History and Curator of the Oriental Museum*  
 ARTHUR CUTTS WILLARD, B.S., *Professor of Heating and Ventilation and Head of the Department of Mechanical Engineering*  
 ROBERT GRAHAM, D.V.M., *Professor of Animal Pathology*  
 JOHN MCBEATH SNODGRASS, B.S., *Professor of Railway Mechanical Engineering and Head of the Department of Railway Engineering*  
 BURDETTE ROSS BUCKINGHAM, Ph.D., *Professor of Education and Director of the Bureau of Educational Research*  
 HARRISON EDWARD CUNNINGHAM, A.B., *Director of the University Press and Secretary of the Board of Trustees*  
 WILLIAM LEONIDAS BURLISON, Ph.D., *Professor of Crop Production and Head of the Department of Agronomy*  
 BETHEL STEWART PICKETT, M.S., *Professor of Pomology*  
 HERMAN BERNARD DORNER, M.S., *Professor of Floriculture*  
 JAMES LLOYD EDMONDS, B.S., *Professor of Horse Husbandry*  
 MELVIN LORENIUS ENGER, M.S., C.E., *Professor of Mechanics and Hydraulics*  
 WALTER FREDERICK HANDSCHIN, B.S., *Professor of Farm Organization and Management and Head of the Department*  
 HARVEY HERBERT JORDAN, B.S., *Assistant Professor of General Engineering Drawing and Head of the Department, Assistant Dean of the College of Engineering*  
 FRED HENRY RANKIN, B.S., *Superintendent of Agricultural Extension and Assistant to the Dean of the College of Agriculture*  
 HENRY PERLEY RUSK, M.S., *Professor of Cattle Husbandry*  
 HIRAM THOMPSON SCOVILL, A.B., C.P.A., *Professor of Accountancy and Head of the Department of Business Organization and Operation*  
 JAMES BYRNE SHAW, D.Sc., *Professor of Mathematics*  
 RUBY ELIZABETH CAMPBELL MASON, A.M., *Dean of Women*  
 ARTHUR BYRON COBLE, Ph.D., *Professor of Mathematics*  
 EVERETT EDGAR KING, M.S., C.E., M.C.E., *Professor of Railway Civil Engineering*

- GEORGE FREDERICK NEY DAILEY, Major, Infantry, U.S.A., *Professor of Military Science and Tactics and Commandant*
- CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Professor of Education and Dean of the College of Education*
- CHARLES MANFRED THOMPSON, Ph.D., *Professor of Economics and Dean of the College of Commerce and Business Administration*
- ROGER ADAMS, Ph.D., *Professor of Chemistry*
- JOSEPH HOWARD BEARD, M.D., *Professor of Hygiene and University Health Officer*
- JOHN A DETLEFSEN, D.Sc., *Professor of Genetics*
- GEORGE TOBIAS FLOM, Ph.D., *Professor of Scandinavian*
- WALTER LEE GAINES, Ph.D., *Professor of Milk Production*
- SIMON LITMAN, Dr. Jur.Pub.et Rer.Cam., *Professor of Economics*
- THOMAS EDMUND SAVAGE<sup>1</sup>, Ph.D., *Professor of Geology*
- LORADO TAFT, M.S., L.H.D., *Non-Resident Professor of Art*
- ALBERT LEMUEL WHITING, Ph.D., *Professor of Soil Biology*
- TERENCE THOMAS QUIRKE, E.M., Ph.D., *Associate Professor of Geology and Chairman of the Department*
- EDWARD HERBERT CAMERON, Ph.D., *Professor of Educational Psychology*
- HOWARD VERNON CANTER, Ph.D., *Professor of the Classics and Assistant Dean of the College of Liberal Arts and Sciences*
- ROBERT DANIEL CARMICHAEL, Ph.D., *Professor of Mathematics*
- MARTIN JOHN PRUCHA, Ph.D., *Professor of Dairy Bacteriology and Acting Head of the Department of Dairy Husbandry*
- WILLIAM SPENCE ROBERTSON, Ph.D., *Professor of History*
- FREDERICK NOBLE EVANS<sup>1</sup>, A.B., M.L.A., *Professor of Landscape Gardening*
- VERNA BROOKS, A.B., *Acting Director of Physical Education for Women*
- WALTER LEE SUMMERS, J.D., *Professor of Law*

#### ASSOCIATE PROFESSORS

- JAKOB KUNZ,<sup>1</sup> Ph.D., *Associate Professor of Mathematical Physics*
- HARRY GILBERT PAUL, Ph.D., *Associate Professor of English Language and Literature*
- JOHN MABRY MATHEWS, Ph.D., *Associate Professor of Political Science*
- ARNOLD EMCH, Ph.D., *Associate Professor of Mathematics*
- HOWARD BISHOP LEWIS, Ph.D., *Associate Professor of Physiological Chemistry*
- WALTER SCOTT MONROE, Ph.D., *Associate Professor of Education and Assistant Director of the Bureau of Educational Research*
- CHRISTIAN ALBAN RUCKMICK,<sup>2</sup> Ph.D., *Associate Professor of Psychology*
- FRED B SEELY, M.S., *Associate Professor of Theoretical and Applied Mechanics*
- WILBUR M WILSON, M.M.E., C.E., *Associate Professor of Structural Engineering*
- ROBERT FRANCIS SEYBOLT, Ph.D., *Associate Professor of History of Education*
- B SMITH HOPKINS, Ph.D., *Associate Professor of Chemistry*
- JESSE BENJAMIN KOMMERS, B.S., *Special Research Associate Professor of Engineering Materials*
- ARETAS WILBUR NOLAN, M.S., *Associate Professor of Agricultural Education and Director of the Smith-Hughes Teacher Training*
- VICTOR ERNEST SHELFORD, Ph.D., *Associate Professor of Zoology*
- GEORGE DENTON BEAL, Ph.D., *Associate Professor of Chemistry*
- RUSSELL McCULLOCH STORY, Ph.D., *Associate Professor of Political Science*
- WILLIAM HERSCHEL SMITH, M.S., *Associate Professor of Animal Husbandry*
- GORDON WATKINS, Ph.D., *Associate Professor of Economics*

<sup>1</sup>On leave of absence.

<sup>2</sup>On leave of absence, second semester.

SAMUEL JESSE VAUGHN, A.B., *Associate Professor of Industrial Education*  
 ARTHUR MOSES BUSWELL, Ph.D., *Associate Professor of Sanitary Chemistry*  
 CHESTER MORTON DAVISON, B.S., *Associate Professor of Architectural Design*  
 THOMAS JAMES CAMP, Major, Infantry, U.S.A., *Associate Professor of Military Science and Tactics and Executive Officer*  
 HAROLD HANSON MITCHELL, Ph.D., *Associate Professor of Animal Nutrition*  
 CLARENCE WALTER HAM, M.E., *Associate Professor of Machine Design*  
 JOSEPH V POLSON, M.E., *Associate Professor of Mechanical Engineering*

### ASSISTANT PROFESSORS

EDWARD CHAUNCEY BALDWIN, Ph.D., *Assistant Professor of English Literature*  
 NEIL CONWELL BROOKS, Ph.D., *Assistant Professor of German and Curator of the Museum of European Culture*  
 FRANCES SIMPSON, B.L.S., M.L., *Assistant Professor of Library Economy and Assistant Director of the Library School*  
 EDWARD HARDENBERGH WALDO, E.E., *Assistant Professor of Electrical Design*  
 JUSTUS WATSON FOLSOM, D. Sc., *Assistant Professor of Entomology*  
 WILLIAM FREDERICK SCHULZ, E.E., Ph.D., *Assistant Professor of Physics*  
 GEORGE FOSS SCHWARTZ, B.Mus., A.M., *Assistant Professor of Music*  
 FRANKLIN WILLIAM SCOTT, Ph.D., *Assistant Professor of English, Secretary of the Department, and Secretary of the Committee on Students' English*  
 HARRY STUART VEDDER JONES, Ph.D., *Assistant Professor of English*  
 LEONARD BLOOMFIELD,<sup>1</sup> Ph.D., *Assistant Professor of Comparative Philology and German*  
 JAMES ELMO SMITH, C.E., *Assistant Professor of Civil Engineering*  
 ALBERT WOODWARD JAMISON,<sup>2</sup> M.S., *Assistant Superintendent of Agricultural College Extension*  
 ARTHUR ROBERT CRATHORNE, Ph.D., *Assistant Professor of Mathematics*  
 RALPH KENT HURSH, B.S., *Assistant Professor of Ceramic Engineering*  
 JACOB ZEITLIN, Ph.D., *Assistant Professor of English*  
 VIRGIL R FLEMING, B.S., *Assistant Professor of Applied Mechanics*  
 HARRY WARREN ANDERSON, Ph.D., *Assistant Professor of Pomology*  
 ALBERT AUSTIN HARDING, B.Mus., *Assistant Professor of Music and Director of the Military Bands*  
 HARRY FRANKLIN HARRINGTON, A.M., *Assistant Professor of Journalism*  
 AUBREY JOHN KEMPNER, Ph.D., *Assistant Professor of Mathematics*  
 PHILIP AUGUSTUS LEHENBAUER, Ph.D., *Assistant Professor of Plant Physiology*  
 WALTER BYRON McDOUGALL, Ph.D., *Assistant Professor of Botany*  
 REXFORD NEWCOMB, A.M., M. Arch., *Assistant Professor of Architectural History*  
 JOHN HENRY REEDY, Ph.D., *Assistant Professor of Chemistry*  
 HARRISON AUGUST RUEHE,<sup>2</sup> M.S., *Assistant Professor of Dairy Manufactures*  
 GUSTAF ERIC WAHLIN, Ph.D., *Assistant Professor of Mathematics*  
 ELMER HOWARD WILLIAMS, Ph.D., *Assistant Professor of Experimental Physics*  
 CHARLES HENRY WOOLBERT, Ph.D., *Assistant Professor of Speech*  
 MORRIS MORGAN LEIGHTON, Ph.D., *Assistant Professor of Geology*  
 EDWARD JOSEPH FILBEY, Ph.D., C.P.A., *Assistant Professor of Accountancy*  
 FREDERIC ARTHUR RUSSELL, Ph.D., *Assistant Professor of Business Organization and Operation*  
 HAROLD EATON BABBITT, M.S., *Assistant Professor of Municipal and Sanitary Engineering*  
 PAUL EVERETTE BELTING, Ph.D., *Assistant Professor of Secondary Education*

<sup>1</sup>Resigned, February 1, 1921

<sup>2</sup>On leave of absence.

- HENRY BLUMBERG, Ph.D., *Assistant Professor of Mathematics*  
 WILLIAM EVERETT BRITTON, A.M., J.D., *Assistant Professor of Law and Librarian of the College of Law*  
 JOHN LORENZO GRIFFITH, A.B., *Assistant Professor of Athletic Coaching*  
 MERLIN HAROLD HUNTER, Ph.D., *Assistant Professor of Economics*  
 LLOYD MOREY, A.B., B.Mus., C.P.A., *Assistant Professor of Accountancy and Comptroller*  
 OLIVER RALPH OVERMAN, Ph.D., *Assistant Professor of Dairy Chemistry*  
 CYRUS EDMUND PALMER, M.S., *Assistant Professor of Architectural Engineering*  
 GEORGE WELLINGTON PICKELS, C.E., *Assistant Professor of Civil Engineering*  
 GUSTAV HOWARD RADEBAUGH, *Assistant Manager of Shop Laboratories*  
 FRED WILBUR TANNER, Ph.D., *Assistant Professor of Bacteriology*  
 HARLEY JONES VANCLEAVE, Ph.D., *Assistant Professor of Zoology*  
 CARROLL CARSON WILEY, C.E., *Assistant Professor of Highway Engineering*  
 ROBERT CARL ZUPPKE, Ph.B., *Assistant Professor of Physical Education*  
 WARREN ALBERT RUTH, Ph.D., *Assistant Professor of Pomology*  
 EDWIN HARDIN SUTHERLAND, Ph.D., *Assistant Professor of Sociology*  
 ROSCOE RAYMOND SNAPP, B.S., *Assistant Professor of Animal Husbandry*  
 CHARLES EARL BRADBURY, B.P., *Assistant Professor of Art and Design*  
 ROBERT WALKER GROW, Captain, Cavalry, U.S.A., *Assistant Professor of Military Science and Tactics*  
 ERNEST BARNES LYTLE, Ph.D., *Assistant Professor of the Teaching of Mathematics*  
 PAUL VANBRUNT JONES, Ph.D., *Assistant Professor of History*  
 HAROLD NEWCOMB HILLEBRAND, Ph.D., *Assistant Professor of English*  
 CHARLES ALLYN WILLIAMS, Ph.D., *Assistant Professor of German*  
 WILLIAM SANFORD BROCK, B.S., A.B., *Assistant Professor of Pomology*  
 ARTHUR SAMUEL COLBY, Ph.D., *Assistant Professor of Pomology*  
 CHANCE STEVENS HILL, B.S., *Assistant Professor of Landscape Gardening*  
 THOMAS ERNEST LAYNG, Ph.D., *Assistant Professor of Chemistry*  
 ELMER ROBERTS, Ph.D., *Assistant Professor of Genetics*  
 RAYMOND STRATTON SMITH, Ph.D., *Assistant Professor of Soil Physics*  
 HOWARD JOHN SNIDER, B.S., *Assistant Professor of Soil Fertility*  
 EMMA LOUISE WARDELL, M.S., *Assistant Professor of Home Economics*  
 WILLIAM WODIN YAPP, M.S., *Assistant Professor of Dairy Husbandry*  
 THEODORE CALVIN PEASE, Ph.D., *Assistant Professor of History*  
 SILAS ALONZO BRALEY, Ph.D., *Assistant Professor of Chemistry*  
 ERNEST E DETURK, Ph.D., *Assistant Professor of Soil Technology*  
 ARMIN HAJMAN KOLLER, Ph.D., *Assistant Professor of German*  
 ANANIAS CHARLES LITTLETON, A.M., C.P.A., *Assistant Professor of Accountancy and Assistant Dean of the College of Commerce and Business Administration*  
 JOHN VANHORNE, Ph.D., *Assistant Professor of Romance Languages*  
 EMIL CONRAD VOLZ, M.S., *Assistant Professor of Olericulture*  
 ARTHUR HAMILTON, Ph.D., *Assistant Professor of Romance Languages*  
 WILLIAM HORACE RAYNER, C.E., M.S., *Assistant Professor of Surveying*  
 MATTHEW RUTHERFORD RIDDELL, A.B., *Assistant Professor of Aeronautic Engineering and Assistant to the Director of the Engineering Experiment Station*  
 LEMUEL CROSS DILLENBACK, A.M., *Assistant Professor of Architectural Design*  
 HORACE JAMES MACINTIRE, M.M.E., *Assistant Professor of Refrigeration*  
 FREDERICK CHARLES DIETZ, Ph.D., *Assistant Professor of History*  
 WILLIAM MACY STANTON, M.S., *Assistant Professor of Architectural Design*  
 FANNIE MARIA BROOKS, A.B., R.N., *Assistant Professor of Sanitation and Home Nursing and Extension Specialist*



CLYDE MELVIN WOODWORTH, Ph.D., *Assistant Professor of Plant Breeding*  
 JAMES GARFIELD RANDALL, Ph.D., *Assistant Professor of History*  
 WILLIS SUMNER PUTNAM, Ph.D., *Assistant Professor of Chemistry*  
 WILLIAM EDWARD BURR, Captain, Field Artillery, U.S.A., *Assistant Professor of Military Science and Tactics*  
 LAYSON ENSLOW ATKINS, Captain, Engineers, U.S.A., *Assistant Professor of Military Science and Tactics*  
 JOSEPH MONROE MURPHY, Captain, Infantry, U.S.A., *Assistant Professor of Military Science and Tactics*  
 DANIEL ALLMAN CONNOR, Captain, Field Artillery, U.S.A., *Assistant Professor of Military Science and Tactics*  
 EDWARD SCOTT JOHNSTON, Captain, Infantry, U.S.A., *Assistant Professor of Military Science and Tactics*  
 WILLIAM SAMUEL RUMBROUGH, Captain, Signal Corps, U.S.A., *Assistant Professor of Military Science and Tactics*  
 JOHN GARFIELD WHITESIDES, Captain, Air Service, U.S.A., *Assistant Professor of Military Science and Tactics*  
 HARLAND BARTHOLOMEW, *Assistant Professor of Civic Design*  
 ARTHUR EILER DRUCKER, B.S., *Assistant Professor of Mining Engineering*

#### ASSOCIATES

DANIEL OTIS BARTO<sup>1</sup>, B.S., *Associate in Animal Husbandry*  
 SLEETER BULL, M.S., *Associate in Animal Nutrition*  
 FRANCIS MARION PORTER, M.S., *Associate in General Engineering Drawing*  
 CLARENCE VALENTINE BOYER, Ph.D., *Associate in English*  
 HARRY LOVERING GILL, *Associate in Track Athletics*  
 ABNER RICHARD KNIGHT, M.E., M.S., *Associate in Electrical Engineering*  
 HAROLD HOUGHTON DUNN, M.S., *Research Associate in Railway Engineering*  
 DUANE TAYLOR ENGLIS, Ph.D., *Associate in Chemistry*  
 FLORENCE HELEN CHURTON, B.S., *Associate in Home Economics Education*  
 ALICE LEORA EDWARDS, A.M., *Associate in Home Economics*  
 CARL RAHN, Ph.D., *Associate in Psychology*  
 ARTHUR JAMES SCHUETTNER, E.G., *Associate in Physical Education and Director of the Men's Gymnasium*  
 JOHN BENJAMIN RICE, M.S., *Associate in Animal Husbandry*  
 CLARISSA RINAKER, Ph.D., *Associate in English*  
 EMIL RAUCHENSTEIN, B.S., *Associate in Farm Organization and Management*  
 DWIGHT LOGAN REID, M.S., *Associate in Agricultural Education*  
 JOHN SIMEON CLEAVINGER, A.B., B.L.S., *Associate in Library Science*  
 NEWTON EDWARD ENSIGN, A.B., B.S., *Associate in Theoretical and Applied Mechanics*  
 ARTHUR SAMUEL AMBROSE, B.S., *Associate in Dairy Manufactures*  
 JOSEPH EDWIN BURGESS, B.P., *Associate in Freehand Drawing*  
 MASON HERBERT CAMPBELL, M.S., *Associate in Dairy Husbandry*  
 GERHARD DIETRICHSON, Ph.D., *Associate in Chemistry*  
 RUTH GUENTHER, A.M., *Associate in Home Economics*  
 BURRILL RUPERT HALL, *Superintendent of the Pattern Laboratory*  
 ADA ELEANOR HUNT, A.B., *Associate in Home Economics*  
 WILLIAM GARFIELD KAMMLADE, M.S., *Associate in Animal Husbandry*  
 ROBERT EDWIN KENNEDY, *Superintendent of the Foundry Laboratory*  
 EDGAR THOMAS LANHAM, *Superintendent of the Forge Laboratory*

<sup>1</sup>Deceased, January 18, 1921

- MAY ELIZABETH McADAMS, B.S., *Associate in Landscape Gardening*  
 WILLIAM JAMES PUTNAM, M.S., *Associate in Theoretical and Applied Mechanics*  
 HERMAN RICHARD SCHWARZE, D.V.S., M.D.S., *Associate in Animal Pathology*  
 HARALD MALCOLM WESTERGAARD, Ph.D., *Associate in Theoretical and Applied Mechanics*  
 ELMER NEWMAN BUNTING, Ph.D., *Research Associate in Ceramic Engineering*  
 ERNEST ALEXANDER REID, M.S., *Associate in Electrical Engineering*  
 RAY WALTER ARMS, E.M., *Associate in Mining Engineering*  
 ROSALIE MARY PARR, Ph.D., *Associate in Chemistry*  
 RANDOLPH PHILIP HOELSCHER, B.S., *Associate in General Engineering Drawing*  
 CHRIS SIMEON RHODE, B.S., *Associate in Dairy Husbandry*  
 LYDA BOND, B.S., *Associate in Home Economics and Director of the Lunch Room*  
 WORTH ARTHUR ALLISON, M.S., *Associate in Animal Husbandry*  
 GEORGE HARLAN DUNGAN, B.S., *Associate in Crop Production*  
 STANLEY WILLIAM HALL, B.S., *Associate in Floriculture*  
 EDA AUGUSTA JACOBSEN, A.M., *Associate in Home Economics*  
 JOHN PIEPER, M.S., *Associate in Crop Production*  
 RAY IRIS SHAWL, M.S., *Associate in Farm Mechanics*  
 RALPH STANLEY BAUER, M.S., J.D., *Associate in Business Law*  
 IVAN BERTRAND BOUGHTON, D.V.M., *Associate in Animal Pathology*  
 ROGER EUGENE WILLIAMS, First Lieutenant, Cavalry, U.S.A., *Associate in Military Science and Tactics*  
 CHAUNCEY AUBREY BENNETT, First Lieutenant, Field Artillery, U.S.A., *Associate in Military Science and Tactics*  
 GROVER ELMER HUTCHINSON, First Lieutenant, Infantry, U.S.A., *Associate in Military Science and Tactics*  
 SAMUEL CARTER STEWART, First Lieutenant, Cavalry, U.S.A., *Associate in Military Science and Tactics*  
 OTTO GEORGE SCHAFER, B.S., *Associate in Landscape Gardening*  
 THOMAS EDWARD O'DONNELL, B.S., *Associate in Architectural Design*  
 GERTRUDE EVELYN MOULTON, M.D., *Associate in Hygiene and Medical Adviser for Women*  
 ROBERT BRUCE WEIRICK, Ph.D., *Associate in English*  
 EDWIN RAYMOND SMITH, Ph.D., *Associate in Mathematics*  
 CARL LEONARD LUNDGREN, B.S., *Associate in Physical Education for Men*  
 CARL A SCHOLL, B.S., *Associate in Farm Mechanics*  
 FRANK J WINTERS, B.P.E., *Associate in Physical Education for Men*  
 RALPH STANLEE FANNING, B.Arch., M.S., *Associate in Architecture*  
 JAMES HUTCHINSON, *Associate in Floriculture*  
 HARRY ALBERT ROSS, B.S., *Associate in Dairy Economics*  
 THOMAS EVERETT RICHMOND, M.S., *Associate in Soil Biology*  
 DAVID CLEVELAND WIMER, B.S., *Associate in Soil Physics*  
 OGLE HESSE SEARS, M.S., *Associate in Soil Physics*  
 CARLOTTA MARKS FORD, A.B., *Associate in Home Management*  
 REUBEN WALTER PETERSON, B.S., *Associate in Dairy Husbandry*  
 HARRY CLEVELAND KREMERS, Ph.D., *Associate in Chemistry*  
 JOHN KNOX MCNEELY, A.M., *Associate in General Engineering Drawing*  
 JOHN KLINE TUTHILL, B.S., *Research Associate in Railway Engineering Education*  
 HESTER ANN ALLYN, A.B., *Associate in Home Economics Education*  
 MAX LAMPERT, M.D., *Associate in Hygiene and Medical Adviser for Men*  
 VIRGINIA HOYT WEAVER, A.B., *Associate in Home Economics*  
 HARVEY FRANCIS RAWLINGS, M.D., *Associate in Zoology*

## LECTURERS

ROBERT ENOCH HIERONYMUS, A.M., LL.D., *Community Adviser*  
 ARLIE GLENN CAPPS, A.M., *Lecturer on Education*  
 LEWIS WARD WILLIAMS, A.M., *Lecturer on Education*  
 MARTHA WILSON, *Special Lecturer on Children's Literature and High-School Problems*

## INSTRUCTORS

MARTHA JACKSON KYLE, A.M., *Instructor in English*  
 DAISY LUANA BLAISDELL, A.M., *Instructor in Romance Languages and Social Director of the Woman's Residence Hall*  
 HENRI JACOBUS VAN DEN BERG, *Instructor in Piano*  
 MARY MINERVA WETMORE, *Instructor in Art and Design*  
 ETHEL BOND, A.B., B.L.S., *Instructor in Library Economy and Catalog Reviser*  
 EDWIN JOHN MANLEY, *Instructor in Swimming and Manager of Intra-mural Athletics*  
 STELLA MARY HAGUE, Ph.D., *Instructor in Botany*  
 ARTHUR GRENVILLE ELDREDGE, *Instructor in Photography and Director of the Photographic Laboratories*  
 ROBERT DOUGLAS GLASGOW, Ph.D., *Instructor in Entomology*  
 ANNA LUE HUGHITT, *Instructor in Physical Education for Women*  
 FRANK TATHAM JOHNSON, *Instructor in Music*  
 ANNE MORRIS BOYD, A.B., B.L.S., *Instructor in Library Economy and Assistant in the Library*  
 ALTA GWINN SAUNDERS, A.M., *Instructor in Business English*  
 ERNEST ERWIN LEISY, A.M., *Instructor in English*  
 ARTHUR BERESFORD, *Instructor in Voice*  
 PAUL HENRY BURKHART, B.S., *Instructor in Electrical Engineering*  
 ROKUSABURO KUDO, D.Ag.Sc., *Instructor in Zoology*  
 RUSSELL A WATT, B.S., *Instructor in General Engineering Drawing*  
 WILLIAM HENRY HYSLOP, Ph.D., *Instructor in Physics*  
 HENRY HEATON BAILY, Ph.B., C.P.A., *Instructor in Accountancy*  
 HARRY WARREN DAY<sup>1</sup>, B.S., *Instructor in Olericulture*  
 JASPER OWEN DRAFFIN, M.S., *Instructor in Theoretical and Applied Mechanics*  
 GEORGE MARSH HIGGINS, Ph.D., *Instructor in Zoology*  
 EDGAR COLBY KNOWLTON, Ph.D., *Instructor in English*  
 ERNEST LANGFORD, B.S., *Instructor in Architectural Construction*  
 CHAUNCEY RUTHVEN MCANLIS, *Instructor in Architectural Engineering*  
 JOHN JAY PARRY, Ph.D., *Instructor in English*  
 MARY DODDS PHILLIPS, *Instructor in Music*  
 KATHARINE ELIZABETH SEELYE, A.B., *Instructor in Music*  
 AMOS DAVID WRIGHT, *Assistant Superintendent of the Pattern Laboratory*  
 JOSEPH WARD SWAIN, Ph.D., *Instructor in History*  
 EGBERT ERNEST NEARPASS, JR., B.P., *Instructor in Art and Design*  
 MARGARET BARTO, A.M., *Instructor in Physical Education*  
 CARL ALBERT HOFFMAN, B.S., *Instructor in Teacher Training Classes*  
 JAMES EDWARD GILLESPIE, Ph.D., *Instructor in History*  
 OSCAR WILLIAM SCHRICKER, *Assistant Superintendent of the Machine Laboratory*  
 CLARA MABEL HOGUE, A.M., *Instructor in English*  
 RUTH KELSO, A.M., *Instructor in English*  
 LOUISE MARIE WOODROOFE, B.P., *Instructor in Freehand Drawing*

<sup>1</sup>Resigned, December 15, 1920.

COLEMAN ROBERTS GRIFFITH, Ph.D., *Instructor in Psychology*  
 LEONARD LEO STEIMLEY, Ph.D., *Instructor in Mathematics*  
 ALYDA CAREN HANSON, B.S., *Instructor in Geology*  
 PEMBROKE HOLCOMB BROWN, A.M., *Instructor in Economics*  
 CHARLES FRANCIS GREEN, Ph.D., *Instructor in Mathematics*  
 ZENAS HARRY MOHLMAN, B.S., *Instructor in Floriculture*  
 VICTOR ELWIN SPENCER, B.S., *Instructor in Soil Fertility*  
 BENJAMIN ANDREW STIRITZ, B.S., *Instructor in Dairy Manufactures*  
 AUGUSTA EMILIE GALSTER, A.M., *Instructor in Economics*  
 EZRA EDWARD BAUER, B.S., *Instructor in Highway Engineering*  
 FREDERICK E PRICE, B.S., *Instructor in Teacher Training Classes*  
 CONSTANCE MIRIAM SYFORD, A.M., *Instructor in English*  
 CARL SHIPP MARVEL, Ph.D., *Instructor in Chemistry*  
 BIRD MARGARET TURNER, Ph.D., *Instructor in Mathematics*  
 WALTER JAMES YEATON, A.B., *Instructor in Geology*  
 EDNA ALMEDA TREAT, B. Mus., *Instructor in Music*  
 HENRY ROY BRAHANA, Ph.D., *Instructor in Mathematics*  
 CHARLES SIDNEY WASHBURN, B.S., *Instructor in General Engineering Drawing*  
 IVAN WRIGHT, M.S., *Instructor in Economics*  
 WILLIAM CHILTON TROUTMAN, A.M., *Instructor in English*  
 CLARENCE ARTHUR BERDAHL, Ph.D., *Instructor in Political Science*  
 LEONARD MISCALL, C.E., *Instructor in General Engineering Drawing*  
 ANABEL EUGENIA HARTMAN, A.M., *Instructor in English*  
 LOUISE BURNHAM DUNBAR, Ph.D., *Instructor in Economics*  
 CAROLINE HESS, *Instructor in Music*  
 MARGARET ANDERSON, A.M., *Instructor in Romance Languages*  
 CAROLINE RUTH MORRIS, A.M., *Instructor in Physical Education for Women*  
 LOUIS JOHN LARSON, M.S., *Instructor in Theoretical and Applied Mechanics*  
 WILLIAM LOUIS SCHWALBE, M.S., *Instructor in Theoretical and Applied Mechanics*  
 LILLIAN IRENE RUTLIN, *Instructor in Music*  
 SAMUEL CALEB RATCLIFFE, A.M., *Instructor in Sociology*  
 BLAINE THOMAS DAVIDSON, LL.B., *Instructor in Business Law*  
 MARY GERTRUDE HASEMAN, Ph.D., *Instructor in Mathematics*  
 GEORGE SIMS PARKER, E.E., *Instructor in Electrical Engineering*  
 CHARLES F SCHLATTER, B.S., *Instructor in Accountancy*  
 OLIVE MYERS GOOCH, *Instructor in Music*  
 LEO G HARRIS, A.B., *Instructor in Accountancy*  
 WEEMS VINTON SNIDER, A.B., *Instructor in Accountancy*  
 JOSEF FRANKLIN WRIGHT, A.B., *Instructor in Journalism and Director of Publicity*  
 MATE LEWIS GIDDINGS, A.B., *Instructor in Home Economics*  
 HELEN E MCCULLOUGH, A.M., *Instructor in Home Economics*  
 WALTER JOHN ROTH, B.S., *Instructor in Farm Organization and Management*  
 ESTHER HAYES VINCENT, B. Mus., *Instructor in Music*  
 IRVING LEONARD PETERSON, B.S., *Instructor in Landscape Gardening*  
 ELMER ALFRED BIERBAUM,<sup>1</sup> B.S., *Instructor in Pomology*  
 ORVAL BENNETT, LL.B., A.M., *Instructor in Transportation*  
 RUSSELL ALGER HALL, B.S., *Instructor in General Engineering Drawing*  
 MARY NOBLE, B.S., *Instructor in Physical Education for Women*  
 CORNELIUS FRANCIS KRUSE, A.M., *Instructor in Educational Psychology*  
 STANLEY POTTER STEWART, B. Arch., *Instructor in Architectural Design*

<sup>1</sup>Resigned, January 31, 1921.

HUGH ALEXANDER BROWN, M.S., E.E., *Instructor in Electrical Engineering*  
 FRED ALLEN BEIDLEMAN, B.S., B. Mus., *Instructor in Music*  
 FRANK BONNER LEONARD,<sup>1</sup> JR., A.B., J.D., *Instructor in Law*  
 ROY WILBUR SCHROEDER, *Assistant Superintendent of the Foundry Laboratory*  
 GEORGE VANDERVEEN, B.S., *Instructor in Soil Fertility*  
 CHARLES ALBERT BROOKS,<sup>2</sup> *Assistant Superintendent of the Forge Laboratory*  
 CAROLINE FRANCES TUPPER, Ph.D., *Instructor in English*  
 HUBER OGILVIE CROFT, B.S., *Instructor in Mechanical Engineering*  
 CRAIG POTTER HAZELET, B.S., *Instructor in Structural Engineering*  
 BERNHARD ALEXANDER UHLENDORF, Ph.D., *Instructor in German*  
 JOHN EVERTS LAMAR, B.S., *Instructor in Geology*  
 MURRAY WRIGHT BUNDY, Ph.D., *Instructor in English*  
 ERNEST ELMER BEARG, A.B., *Instructor in Physical Education for Men*  
 PAUL HENRY PREHN, *Instructor in Physical Education for Men*  
 ADOLPH WILLIAM HENRY,<sup>3</sup> B.S., *Instructor in Chemistry*  
 ELMER FRANKLIN HEATER, B.S., *Instructor in General Engineering Drawing*  
 JOHN HARRISON HEDGCOCK, B.S., *Instructor in Agronomy*  
 HAROLD NEVINS PARKINSON, B.S., *Instructor in Railway Mechanical Engineering*  
 WILLIAM HENRY ADOLPH, Ph.D., *Instructor in Chemistry*  
 FRANK K WALTER, A.M., M.L.S., *Instructor in Library Science.*  
 ORIS BARTH, LL.D. *Instructor in Law.*  
 MARY CECILIA WHITLOCK,<sup>3</sup> B.S., *Instructor in Home Economics*

#### ASSISTANTS

CHARLES FRANCIS HILL, A.M., *Assistant in Physics*  
 RAFAEL ARCANGEL SOTO, A.M., *Assistant in Romance Languages*  
 KATHERINE HILL PAUL, *Scientific Artist in Zoology*  
 ELISA CURTIS, A.B., *Assistant in Romance Languages*  
 WILLIAM EDMUND EDINGTON, A.M., *Assistant in Mathematics*  
 FLORENCE SANDER HAGUE, A.M., *Assistant in Zoology*  
 EARL EMANUEL LIBMAN, M.S., *Assistant in Ceramic Engineering*  
 JANE COULSON WATSON, A.M., *Assistant in Romance Languages*  
 MANSON JAMES BRADLEY, A.M., *Assistant in Chemistry*  
 DAVID MADISON BULLOCK, *Assistant in Physical Education*  
 ELMO SCOTT WATSON, A.B., *Assistant in Journalism*  
 OTIS AVERY BARNES, M.S., *Assistant in Chemistry*  
 AXEL BRETT, A.M., *Assistant in Philosophy*  
 GEORGE HOPKINS COLEMAN, M.S., *Research Assistant in Chemistry*  
 JOHN ABERDEEN GUNTON, A.M., *Assistant in Chemistry*  
 MRS. CHARLES HUGHES JOHNSTON, A.B., *Assistant in Education*  
 FLORENCE MILLER HUMPHREYS, A.M., *Assistant in English*  
 MARGARET HATFIELD, A.B., *Assistant in Foods*  
 ELEANOR CRAIG, Ph.B., *Assistant in English*  
 BERNHARD PAUL REINSCH, M.S., *Assistant in Mathematics*  
 MADGE RUSH LEWIS, *Assistant in Physical Education for Women*  
 LUCIE EMMA ROOT, A.M., *Assistant in Chemistry*  
 ROGER WENDELL VALENTINE, A.B., *Assistant in Economics*  
 CLAUDE JEROME LAPP, A.M., *Assistant in Physics*  
 LETHE ELEANORA MORRISON, A.B., *Assistant in Bacteriology*  
 FRANK GUSTAVE WAHLEN, M.S., *Assistant in Mathematics*

<sup>1</sup>First semester.

<sup>2</sup>Resigned, October 1, 1920.

<sup>3</sup>Second semester.

DAVID HIRAM THOMPSON, B.S., *Research Assistant in Zoology*  
 EDWIN COULTHARD FRITTS, M.S., *Assistant in Physics*  
 PAUL ANDERS, *Assistant in Glass Blowing*  
 JULIETTE BOUIN, *Assistant in Romance Languages*  
 GEORGE KEYPORTS BRADY, A.M., *Assistant in English*  
 RALPH COLBY, A.M., *Assistant in English*  
 GORDON RANDOLPH CRECRAFT, A.B., *Assistant in English*  
 GAIL PHILLIPS EDWARDS, B.S., *Research Assistant in Sanitary Chemistry*  
 EARL AGARD ENGLE, A.M., *Assistant in Chemistry*  
 ALICIA WILHELMINA GATES, *Assistant in Home Economics*  
 OTTO ERSKINE HUNTLEY, A.B. *Assistant in Chemistry*  
 AARON RAYMOND KIENHOLZ, M.S., *Research Assistant in Botany*  
 PAUL NISSLEY LANDIS, A.M., *Assistant in English*  
 CARL CLARENCE LARSON, B.S., *Research Assistant in Sanitary Chemistry*  
 JANE MARIE LEICHSENRING, B.S., *Assistant in Physiology*  
 HARVEY PIERSON PETTIT, A.M., *Assistant in Mathematics*  
 CHARLEY LYMAN PORTER, A.B., B.S., *Assistant in Botany*  
 LYEELL JAY THOMAS, B.S., *Assistant in Zoology*  
 SYLVIA MARIA VOLLMER, A.B., Ped.M., *Assistant in Romance Languages*  
 MAX JUDD WASSERMAN, A.B., *Assistant in Economics*  
 FREDERICK FRANCIS WEINARD, A.M., *Assistant in Botany*  
 WILLIAM COURTNEY WILSON, M.S., *Assistant in Chemistry*  
 ROY ANDREW NELSON, M.S., *Assistant in Physics*  
 MARIE LOUISE LEAUTIER, B. es L., *Assistant in Romance Languages*  
 FRANK WARREN CLIPPINGER, A.M., *Assistant in English*  
 ELIZABETH JANE RUTHERFORD, A.B., *Assistant in Psychology*  
 MYRON THOMAS TOWNSEND, B.S., *Assistant in Zoology*  
 LUCRETIA LOWE, A.M., *Assistant in English*  
 CLARENCE CARL SCHMIDT, A.B., *Assistant in Physics*  
 CORDELIA REED, A.M., *Assistant in Romance Languages*  
 WINIFRED ALMINA PERRY, A.M., *Assistant in English*  
 RUTH LORENA LEWMAN, A.B., *Assistant in Romance Languages*  
 ERNESTO RAY KNOLLIN, A.B., *Assistant in Physical Education*  
 EMIL FREDERICK GUBA, B.S., *Assistant in Pomology*  
 WALTER GRISEMER, A.B., *Assistant in Mathematics*  
 ROBERT EDMAN GREENFIELD, A.M., *Assistant in Sanitary Chemistry*  
 EDWARD WILLIAM DOLCH, A.M., *Assistant in English*  
 ANNA DAY RINGLAND, A.M., *Assistant in English*  
 PAUL JONES BYRD, A.B., *Assistant in Botany*  
 CONSTANCE ANNA BUSWELL, A.M., *Assistant in English*  
 WALTER LEROY BLAIN, A.B., *Assistant in Botany*  
 DORTHA BESSIE BAILEY, M.S., *Assistant in Chemistry*  
 MARION JEWETT AUSTIN, A.M., *Assistant in English*  
 ELIZABETH BLAIR FLETCHER, A.M., *Assistant in English*  
 ADELAIDE ELENA SMITHERS, A.B., *Assistant in Romance Languages*  
 CHARLES HEMAN PEET, A.B., *Assistant in Chemistry*  
 JULIA MINETTA BARBER, A.M., *Assistant in English*  
 LOTHER HOMER BREDE, B.S., *Assistant in Chemistry*  
 WALTER BRIGGS BURNETT, A.B., *Assistant in Chemistry*  
 MARGARET EBERT FOLEY, A.B., *Assistant in Romance Languages*  
 ANNETTE BARON, A.M., *Assistant in Romance Languages*  
 ALLAN THURMAN WRIGHT, A.B., *Assistant in English*

FLORA MARION LOUGEE, A.B., *Assistant in Chemistry*  
 WILSON DAVIS LANGLEY, M.S., *Assistant in Chemistry*  
 ERROL BATHURST MIDDLETON, A.B., *Assistant in Chemistry*  
 PHILIP KELSEY PORTER, A.B., *Assistant in Chemistry*  
 FRANK HOWARD DRIGGS, A.B., *Assistant in Chemistry*  
 KEITH EMANUEL SPARKS, B.S., *Assistant in Chemistry*  
 JEAN CHARLOTTE SHEPHERD, A.B., *Assistant in Chemistry*  
 DELLA D JUNKIN, A.B., *Assistant in Chemistry*  
 CHARLES CLAYTON WYLIE, A.M., *Assistant in Astronomy*  
 LEE HORACE MCFARLAN, A.M., *Assistant in Mathematics*  
 ELIZABETH EASTON STICKNEY, A.M., *Assistant in Mathematics*  
 HARRY ALBERT BENDER, A.B., *Assistant in Mathematics*  
 GEORGE ROCKWELL BARNETT, B.S., *Assistant in Chemistry*  
 WENDELL HORACE GRIFFITH, M.S., *Assistant in Chemistry*  
 LLOYD BLINN HAM, A.M., *Assistant in Physics*  
 WILLIAM JACOB JENSEN, A.B., *Assistant in Physics*  
 ROY LEWIS MAYHEW, A.M., *Research Assistant in Zoology*  
 WILLIAM HOWARD SANDERS, A.B., *Assistant in Physics*  
 ALTA WELLS WEINARD, B.S., *Assistant in Botany*  
 HOWARD WHITE, A.M., *Assistant in Political Science*  
 S DIX HARWOOD, A.B., *Assistant in English*  
 BEULAH WISE PRANTE, A.M., *Assistant in English*  
 MYRTLE ROSALIE GIDINGHAGEN, A.M., *Assistant in Romance Languages*  
 THOMAS AUSTIN FITZ-GERALD, Ped.B., A.B., *Assistant in Romance Languages*  
 ORDA ALLEN PLUNKETT, A.B., *Assistant in Botany*  
 CLIFFORD FRED RASSWEILER, A.B., *Assistant in Chemistry*  
 MAE ALICE TENNEY, A.M., *Assistant in English*  
 RAY G ELLIS, B.S., Ped.B., *Assistant in Economics*  
 CLARENCE CHARLES HERRMANN, A.B., *Assistant in Economics*  
 WARNER GRENELLE RICE, A.B., *Assistant in English*  
 PAUL RAYMOND STEVENSON, A.M., *Assistant in the Bureau of Educational Research*  
 EDWIN BERRY BURGUM, A.M., *Assistant in English*  
 HAZEL KEITH FORBES, A.B., *Assistant in Geology*  
 DOROTHY MCSPARAN, A.B., *Assistant in English*  
 JOHN W HURST, B.S., *Assistant in Mathematics*  
 JOE EUGENE MOOSE, A.B., *Assistant in Chemistry*  
 EDWARD OSCAR NORTH, B.S., *Assistant in Chemistry*  
 CHAUNCEY BROCKWAY SCHMELTZER, M.S., *Assistant in Surveying*  
 THOMAS ADAM WILSON, A.B., *Assistant in Chemistry*  
 HARRIETT MAYBELLE ANDERSON, A.B., *Assistant in Psychology*  
 CORNELIA PULSIFER KELLEY, A.M., *Assistant in English*  
 HOWARD CLINTON ABBOTT, B.S., *Assistant in Botany*  
 ESTHER CAROLYN PEDDERSON, A.B., *Assistant in Romance Languages*  
 EMIL EDWARD DREGER, B.S., *Assistant in Chemistry*  
 MARY WINSHIP KINGSLEY, A.M., *Assistant in History*  
 ROY FRENCH GRAESSER, A.B., *Assistant in Mathematics*  
 SIDNEY SYLVESTER CARNEY, B.S., *Assistant in Crop Production*  
 ELIZABETH C HYDE, A.B., *Assistant in Chemistry*  
 WESLEY I WAGNER, A.B., *Assistant in Mathematics*  
 WILLIAM HENRY COBB, B.S., *Assistant in Accountancy*  
 DAVID WENDELL CRABB, A.B., *Assistant in Accountancy*  
 ROBERT JOHN HIMMELRIGHT, A.B., *Assistant in Accountancy*

PAUL CANADAY TAYLOR, B.S., *Assistant in Accountancy*  
 FRANK HERMAN BEACH, A.B., *Assistant in Accountancy*  
 PAUL HUBERT TRACY, B.S., *Assistant in Dairy Manufactures*  
 ROBERT EUGENE MCCORMICK, A.B., *Assistant in English*  
 DEVER EDWARD WOODS, B.S., *Assistant in Electrical Engineering*  
 LORENA BIXBY, A.M., *Assistant in English*  
 ALEXANDER ROBERTSON COWIE, A.B., *Assistant in English*  
 ERASTUS IMMANUEL FJELD, B.S., *Assistant in Accountancy*  
 EDWARD JULIUS LAMPERTZ, B.S., *Assistant in Accountancy*  
 DEFORREST DARWIN L WALTON,<sup>1</sup> A.B., *Assistant in Romance Languages*  
 RUTH ISOBEL DOWELL, A.B., *Assistant in Botany*  
 FLYDE MONROE HOBART, A.M., *Assistant in Mathematics*  
 FOSTER FLOYD ELLIOTT, M.S., *Assistant in Farm Management Extension*  
 CORREST DRAPER MCCREA, B.S., *Assistant in Physiology*  
 CHARLES SHERMAN DALE, B.S., *Assistant in Olericulture*  
 ERNEST PAUL LEWIS, B.S., *Assistant in Olericulture*  
 THEODORE WAYLAND DOUGLAS, A.B., *Assistant in English*  
 AMOS JAMES PARKHURST,<sup>1</sup> JR., B.S., *Assistant in Chemistry*  
 GEORGE THEODORE FELBECK, B.S., *Assistant in Mathematics*  
 HELENE VIRGINIA BOUCHER, A.B., *Assistant in Romance Languages*  
 CHARLES WATERS ODELL, A.M., *Assistant in the Bureau of Educational Research*  
 CRANDALL Z ROSECRANS, D.S., *Assistant in Mathematics*  
 GUY LINTON DIFFENBAUGH, A.M., *Assistant in English*  
 MARION BOYER HARLAND, B.S., *Assistant in Soil Physics*  
 SAMPSON RAPHAELSON, A.B., *Assistant in English*  
 RENE GEORGES GUIET, A.B., *Assistant in Romance Languages*  
 JOHN WILLIAM HARSCH, B.S., *Special Research Assistant in Engineering Materials*  
 WALTER BOATMAN WORSHAM, A.B., *Assistant in Physics*  
 JOSEPH B BIANCHI, *Assistant in Romance Languages*  
 JOHN WILLOUGHBY RANDOLPH,<sup>2</sup> *Assistant in Farm Mechanics*  
 A GERTRUDE SERGEANT, A.B., *Assistant in English*  
 IRENE TEAGARDEN, B.S., *Assistant in Home Economics*  
 SEVERINA ELAINE NELSON, A.B., *Assistant in English*  
 ALBERTINE WALTHER, Ph.B., *Assistant in Romance Language*  
 ANTON ERIC ROMYN,<sup>1</sup> M.S., *Assistant in Animal Husbandry*  
 LENA CECILIA RHUE, B.S., *Assistant in Farm Organization and Management*  
 HENRY CARL OESTERLING, A.B., *Assistant in English*  
 CLARENCE ALFRED BONNEN, B.S., *Assistant in Farm Organization and Management*  
 FANNIE LEE, A.B., *Assistant in Home Economics*  
 CLAUDE LEIST, A.B., *Assistant in Zoology*  
 LAURENCE ANDERSON HAYWARD, Master Sergeant, D.E.M.L., *Assistant in Infantry*  
 JOHN EMMET LYNCH, Master Sergeant, D.E.M.L., *Assistant in Signal Corps*  
 MICHAEL KELLY, Master Sergeant, D.E.M.L., *Assistant in Corps of Engineers*  
 ADAM PINSENSHAUM, First Sergeant, D.E.M.L., *Assistant in Cavalry*  
 THOMAS OWEN MAHAN, First Sergeant, D.E.M.L., *Assistant in Field Artillery*  
 ROBERT CLARKE JOHNSON, Staff Sergeant, D.E.M.L., *Assistant in Corps of Engineers*  
 LINDLEY E M MILLS, A.B., *Assistant in Chemistry*  
 EARL ERWIN PARKS, B. S., *Assistant in Chemistry*  
 WALLACE HUME CAROTHERS, B.S.,<sup>3</sup> *Assistant in Chemistry*

<sup>1</sup>Resigned, January 31, 1921<sup>2</sup>Resigned, December 10, 1920.<sup>3</sup>Second semester.



CHALMERS WOODRUFF CRAWFORD, B.S., *Assistant in Animal Husbandry*  
 JOHN WENDELL ANDREWS,<sup>1</sup> B.S., *Assistant in Chemistry*  
 MAURICE W EVANS,<sup>3</sup> B.S., *Assistant in Business Organization and Operation*  
 LUCY M BARTO,<sup>1</sup> B.S., *Assistant in Poultry Husbandary*

### GRADUATE ASSISTANTS

GEORGE REED SHELTON, M.S., *Research Graduate Assistant in Ceramic Engineering*  
 WILLIAM DAIL CANNON, B.S., *Research Graduate Assistant in Electrical Engineering*  
 ARTHUR WILLIAM INGERSOLL, M.S., *Graduate Assistant in Chemistry*  
 HOWARD MARION CHILES, B.S., *Graduate Assistant in Chemistry*  
 ADAM ARTHUR CHRISTMAN, M.S., *Graduate Assistant in Chemistry*  
 ISAAC HAHN GODLOVE,<sup>2</sup> A.M., *Graduate Assistant in Chemistry*  
 MAYOR FARTHING FOGLER, B.S., *Graduate Assistant in Chemistry*  
 PAUL MEADE GINNINGS, M.S., *Graduate Assistant in Chemistry*  
 LEWIS BRADFORD RIPLEY, M.S., *Graduate Assistant in Entomology*  
 VERNON BOSMAN, A.M., *Graduate Assistant in Chemistry*  
 CHARLOTTE FAY BROWN,<sup>2</sup> B.S., *Graduate Assistant in Chemistry*  
 MIRIAM GERTRUDE BUCK, A.B., *Graduate Assistant in Chemistry*  
 WALLACE HUME CAROTHERS,<sup>3</sup> B.S., *Graduate Assistant in Chemistry*  
 RALPH LESTER HORST, A.B., *Graduate Assistant in Chemistry*  
 IRWIN ALVIN KOTEN, A.B., *Graduate Assistant in Chemistry*  
 HARRY LOUIS LOCHTE, A.B., *Graduate Assistant in Chemistry*  
 MARIAN PACE McANALLY, A.B., *Graduate Assistant in English*  
 RUDOLPH STOKES NELSON, B.S., *Graduate Assistant in Chemistry*  
 REX L BROWN, B.S., *Research Graduate Assistant in Engineering Experiment Station*  
 LOTTIE ELLA MUNN, A.B., *Graduate Assistant in Chemistry*  
 BENJAMIN RACZKOWSKI HARRIS, B.S., *Research Graduate Assistant in Engineering Experiment Station*  
 JOHN STANTON PIERCE, B.S., *Graduate Assistant in Chemistry*  
 JOHN WENDELL ANDREWS,<sup>3</sup> B.S., *Graduate Assistant in Chemistry*  
 FLOYD B HOBART, B.S., *Graduate Assistant in Chemistry*  
 ROGER GREENLEAF STEVENS, B.S., *Graduate Assistant in Chemistry*  
 WILLARD LYLE FINLEY, B.S., *Graduate Assistant in Chemistry*  
 HARRY MILTON MILLER, JR., B.S., *Graduate Assistant in Zoology*  
 ERNEST EDWIN MICHAELS, B.S., *Research Graduate Assistant in Civil Engineering*  
 GEORGE WILLIAM CUPIT, JR., B.S., *Graduate Assistant in Chemistry*  
 JOHN BLACKWELL DAVIS, B.S., *Graduate Assistant in Chemistry*  
 MARY ELIZABETH BELL, B.S., *Graduate Assistant in Chemistry*  
 GEORGE HENRY CHENEY, B.S., *Graduate Assistant in Chemistry*  
 JACOB NEVYAS, A.B., *Graduate Assistant in Chemistry*  
 CHARLES WILLIAM RODEWALD, B.S., *Graduate Assistant in Chemistry*  
 JOSEPH SHRIRO, B.S., *Graduate Assistant in Botany*  
 RALPH FRED SCHNEIDER, M.S., *Graduate Assistant in Chemistry*

### STUDENT ASSISTANTS

RUTH HOOVER, *Student Assistant in Physical Education for Women*  
 CLARIS RITTER, *Student Assistant in Physical Education for Women*  
 VICTOR W KELLEY, *Student Assistant in Practise Teaching*  
 MILDRED SOWERS, *Student Assistant in Psychology*  
 HAROLD A HUNTINGTON, *Student Assistant in General Engineering Drawing*

<sup>1</sup>Second Semester

<sup>2</sup>Resigned.

<sup>3</sup>First semester.

HANS CHRISTIAN JOHNSEN, *Student Assistant in General Engineering Drawing*  
BENJAMIN ST JOHN GARVEY, *Student Assistant in Chemistry*  
OLIVE ELIZABETH NUTTALL, *Student Assistant in Botany*  
WARREN EDDY CLEVELAND, *Student Assistant in General Engineering Drawing*  
DAVID SCHLESINGER, *Student Assistant in Chemistry*  
CHARLES CHAUNCEY RUSSELL, *Student Assistant in Chemistry*  
IRVING BANCROFT MORGAN, *Student Assistant in Chemistry*  
RAYMOND COLONIUS KILLEFER, *Student Assistant in Chemistry*  
THOMAS ELIJAH HOLLINGSHEAD, *Student Assistant in Chemistry*  
JOSEPHINE MINNIE EHLE, *Student Assistant in General Engineering Drawing*  
LOUIS ARNOLD SIEGRIST, *Student Assistant in Chemistry*

#### ASSISTANTS IN MILITARY SCIENCE

FRANK TOBIAS, *Assistant in Military Science*  
JOSEPH GRAY LUMMIS, *Assistant in Military Science*  
BARNEY SYDNEY KRELSTEIN, *Assistant in Military Science*  
GLEN MONROE CROSBY, *Assistant in Military Science*  
LEO BRACY REED, *Assistant in Military Science*  
RICHARD SMEJKAL, *Assistant in Military Science*  
HENRY JOHN MEIER, *Assistant in Military Science*  
JAMES BENJAMIN HOLSTON, *Assistant in Military Science*  
HENRY JULIUS HERRMANN, *Assistant in Military Science*  
CARTER JENKINS, *Assistant in Military Science*  
TERRY WARREN EDWARDS, *Assistant in Military Science*  
IRVING BANCROFT MORGAN, *Assistant in Military Science*  
THOMAS EDWARD HENLEY, *Assistant in Military Science*  
JOSEPH PETER JURIC, *Assistant in Military Science*  
ROBERT GARDNER TOLMAN, *Assistant in Military Science*  
JOHN EDWARD SOULE, *Assistant in Military Science*  
PAUL MARTIN MITCHELL, *Assistant in Military Science*  
LEROY MARION GERRITT DANGREMOND, *Assistant in Military Science*  
IRVING WOOD BARNETT, *Assistant in Military Science*  
PHILLIP PERCY GLICK, *Assistant in Military Science*  
GEORGE JOHN WAHL, JR., *Assistant in Military Science*  
LLOYD HERVEY YEAGER, *Assistant in Military Science*  
THOMAS HUNTER ARMSTRONG, *Assistant in Military Science*  
EDWIN HERBERT WEBSTER, *Assistant in Military Science*  
ARTHUR GUSTAV HEIDEMAN, *Assistant in Military Science*  
ARTHUR NELSON BRABROOK, *Assistant in Military Science*  
HAROLD EIJNER RASMUSSEN, *Assistant in Military Science*  
ARTHUR WILLIAM FLECK, *Assistant in Military Science*  
ERIC WILLARD LAGER, *Assistant in Military Science*  
WALTER HENRY ROHE, *Assistant in Military Science*  
RALPH CHENEY PELTZ, *Assistant in Military Science*  
LOUIS HENRY GUENTHER, *Assistant in Military Science*  
LAURELL LACEY SCRANTON, *Assistant in Military Science*

# THE UNIVERSITY LIBRARY

---

## STAFF

PHINEAS LAWRENCE WINDSOR, Ph.B., *Director of the Library and Library School*

*General Assistant—*

ANNE MORRIS BOYD, A.B., B.L.S.

*Order Department—*

WILLIAM K GARVER, B.L.S., *Order Assistant*

RUTH CORINNE MCCAUGHTRY, A.B., *Order Assistant*

MIRIAM ERMINTRUDE HERRON, A.B., *Order Assistant*

*Gifts and Exchanges—*

MILES OSCAR PRICE, B.S., *Exchange Assistant*

JAMES BENNET CHILDS, A.B., *Assistant*

*Periodicals—*

KATHERINE ADELE DOYLE, *Assistant*

*Catalog Department—*

ADAH PATTON, B.L.S., *Catalog Librarian*

ELEANOR MABEL ROBERTSON, A.B., B.L.S., *Cataloger*

AMANDA MOORE FLATTERY, A.M., *Cataloger*

KATHERINE LESLIE MCGRAW, A.B., B.L.S., *Cataloger*

CLEO LICHTENBERGER, B.S., B.L.S., *Cataloger*

MARGARET TOWLE LAWRENCE, A.B., *Cataloger*

ELIZABETH LAIDLAW, *Cataloger*

FLORENCE BLACKBURN, A.B., *Cataloger*

NELLIE MAE COATS, B.S., *Cataloger*

ESTHER MARIE COLVIN, *Cataloger*

*Loan Department—*

EMMA REED JUTTON, B.L.S., *Loan Librarian*

SARAH ELIZABETH BRYAN, A.B., B.L.S., *Loan Assistant*

MARY LUCILE WARNOCK, B.L.S., *Loan Assistant*

JOHN LESTER FEEK, *Loan Assistant*

*Binding Department—*

JOSIE BATCHELLER HOUCHEMS, A.M., B.L.S., *Binding Librarian*

*Reference Department—*

MARGARET HUTCHINS, A.B., B.L.S., *Reference Librarian*

ALICE SARAH JOHNSON, A.B., B.L.S., *Reference Librarian*

FANNY DUNLAP, Ph.B., B.L.S., *Reference Librarian*

*Departmental Libraries—*

HAZEL YEARSLEY SHAW, A.M., *Assistant in Economics and Sociology*

AMELIA KRIEG, A.B., B.L.S., *Assistant in Germanic and Romance Languages*

NELLIE MARIE SIGNOR, A.B., B.L.S., *Assistant in History and Political Science*

ETHYL MAY BLUM, A.B., *Assistant in Philosophy, Psychology, and Education*

ETHEL BOND, A.B., B.L.S., *Assistant in Library Economy*

CHARLES EDWIN JANVRIN, Ph.B., B.L.S., *Assistant in Natural History*

WINIFRED FEHRENKAMP, B.L.S., *Assistant in Architecture*

MARY GLADYS BURWASH, A.B., B.L.S., *Assistant in Agriculture*

MARION E SPARKS, A.M., B.L.S., *Assistant in Chemistry*

HILDA JOSEPHINE ALSETH, *Assistant in Engineering*

# THE COLLEGE OF MEDICINE

(Congress and Honore Streets, Chicago)

---

## PROFESSORS

DAVID KINLEY, Ph.D., LL.D., PRESIDENT

ALBERT CHAUNCEY EYCLESYMER, Ph.D., M.D., *Dean of the College; Professor of Anatomy, Histology, and Embryology, and Head of the Department*

MAURICE LOUIS GOODKIND, M.D., *Professor of Medicine*

GEORGE PETER DREYER, Ph.D., *Professor of Physiology and Physiological Chemistry and Head of the Department*

ALBERT JOHN OCHSNER, M.D., LL.D., *Professor of Surgery and Clinical Surgery*

CHARLES SPENCER WILLIAMSON, M.D., *Professor of Medicine and Head of the Department*

CHARLES SUMNER BACON, M.D., *Professor of Obstetrics and Head of the Department of Obstetrics and Gynecology*

CHARLES DAVISON, A.M., M.D., *Professor of Surgery and Head of the Department*

FREDERICK TICE, M.D., *Professor of Medicine*

JOSEPH MCINTIRE PATTON, M.D., *Professor of Medicine*

CHANNING WHITNEY BARRETT, M.D., *Professor of Gynecology and Clinical Gynecology and Head of the Division*

NORVAL HARVEY PIERCE, M.D., *Professor of Laryngology, Rhinology, and Otology and Head of the Department*

ALBERT EDWARD HALSTEAD, M.D., *Professor of Surgery and Clinical Surgery*

WILLIAM MCINTIRE HARSHA, M.D., *Professor of Surgery and Clinical Surgery*

DAVID JOHN DAVIS, Ph.D., M.D., *Professor of Pathology and Bacteriology and Head of the Department*

JULIUS HAYES HESS, M.D., *Professor of Pediatrics and Clinical Pediatrics and Head of the Division*

HUGH MCALISTER MCGUIGAN, Ph.D., M.D., *Professor of Pharmacology, Materia Medica, and Therapeutics and Head of the Department*

EDWARD VAH LAPHAM BROWN, M.D., *Professor of Ophthalmology and Head of the Department*

HAROLD DOUGLAS SINGER, M.B., M.D., M.R.C.P., *Professor of Psychiatry and Head of the Division and Acting Head of the Division of Neurology*

CHARLES EDWARD HUMISTON, M.D., *Professor of Clinical Surgery*

HERMAN M ADLER, A.M., M.D., *Professor of Criminology and Head of the Department*

HENRY FOSTER LEWIS, M.D., *Professor of Obstetrics and Clinical Obstetrics*

## ASSOCIATE PROFESSORS

RACHELLE S YARROS, M.D., *Associate Professor of Obstetrics and Clinical Obstetrics*

JOSEPH CARL BECK, M.D., *Associate Professor of Surgery, Laryngology, Rhinology, and Otology*

NELSON MORTIMER PERCY, M.D., *Associate Professor of Clinical Surgery*

CHARLES MEYER JACOBS, M.D., *Associate Professor of Clinical Surgery (Orthopedics)*

FRANK SMITHIES, M.D., *Associate Professor of Medicine*

EDWARD LOUIS HEINTZ, Ph.G., M.D., *Associate Professor of Medicine*

MAURICE LEWISON, M.D., *Associate Professor of Physical Diagnosis*

GEORGE FARNSWORTH THOMPSON, M.D., *Associate Professor of Clinical Surgery*

ARTHUR RICHARD ELLIOTT, M.D., C.M., *Associate Professor of Medicine*  
 JOHN WEATHERSON, C.E., M.D., *Associate Professor of Medicine*  
 OTTO HERMAN ROHRLACK, Ph.G., M.D., *Associate Professor of Obstetrics and Clinical Obstetrics*  
 WILLIAM HENRY WELKER, A.C., Ph.D., *Associate Professor of Physiological Chemistry*  
 FRANK DONALD MOORE,<sup>1</sup> M.D., *Associate Professor of Surgery*  
 KARL ALBERT MEYER, M.D., *Associate Professor of Surgery*  
 OTTO FREDERICK KAMPMEIER, Ph.D., *Associate Professor of Anatomy*  
 SIDNEY STRAUSS, M.D., *Associate Professor of Medicine*  
 ISIDORE LEON MEYERS, M.D., *Associate Professor of Neurology*  
 GEORGE BORIS HASSIN, M.D., *Associate Professor of Neurology*

### ASSISTANT PROFESSORS

JOHN MICHAEL LANG, M.D., *Assistant Professor of Clinical Gynecology*  
 EDWARD FRANKLIN LEONARD, M.D., *Assistant Professor of Neurology*  
 ROY LEE MOODIE, Ph.D., *Assistant Professor of Anatomy*  
 CHARLES MORGAN MCKENNA, M.D., *Assistant Professor of Genito-Urinary Surgery*  
 BENJAMIN FRANKLIN LOUNSBURY, M.D., *Assistant Professor of Operative Surgery*  
 HENRY BASCOM THOMAS, M.D., *Assistant Professor of Orthopedic Surgery*  
 CHARLES FRANCIS READ, M.D., *Assistant Professor of Psychiatry*  
 JOHN ROSS HARGER, M.D., *Assistant Professor of Surgery*  
 FRANK CHAUVET, M.D., *Assistant Professor of Physical Diagnosis*  
 CASSIUS CLAY ROGERS, M.D., *Assistant Professor of Surgery*  
 JOSIAH JOHN MOORE, M.D., *Assistant Professor of Pathology and Bacteriology*  
 ERNEST SISSON MOORE, M.D., *Assistant Professor of Medicine*  
 HENRY EUGENE IRISH, M.D., *Assistant Professor of Pediatrics*  
 CHARLES HERBERT PHIFER, M.D., *Assistant Professor of Surgery*  
 EGAN WALTER FISCHMANN, M.D., *Assistant Professor of Gynecology*  
 MORRIS LAMM BLATT, M.D., *Assistant Professor of Pediatrics*  
 ADOLPH HARTUNG, M.D., *Assistant Professor of Roentgenology*  
 WALTER H MEENTS, M.D., *Assistant Professor of Surgery*  
 RALPH CHESSE PURNELL TRUITT, M.D., *Assistant Professor of Neurology and Psychiatry*  
 RAYMOND WILLIAM MCNEALY, M.D., *Assistant Professor of Clinical Surgery*  
 HARRY CULVER, M.S., M.D., *Assistant Professor of Genito-Urinary Surgery*  
 FRANCIS EUGENE SENEAR, M.D., *Assistant Professor of Dermatology*  
 ROBERT WOOD KEETON,<sup>1</sup> M.S., M.D., *Assistant Professor of Pharmacology*  
 ARTHUR REUBEN COOPER, A.M., Ph.D., *Assistant Professor of Anatomy*  
 GEORGE LUTHER DAVENPORT, M.D., *Assistant Professor of Clinical Surgery*  
 GEORGE WILLIAM BOOT, M.D., *Assistant Professor of Laryngology, Rhinology and Otolaryngology*

### ASSOCIATES

PAUL GERHARD ALBRECHT, Ph.D., *Associate in Physiological Chemistry*  
 GEORGE JOHN LORCH, Ph.G., M.D., *Associate in Medicine*  
 WALTER BRADFORD METCALF, M.D., *Associate in Medicine*  
 ALBERT JOHN SCHOENBERG, M.D., *Associate in Gynecology*  
 ARRIE BAMBERGER, M.D., *Associate in Surgery*  
 OSCAR EUGENE NADEAU, M.D., *Associate in Surgical Pathology and Instructor in Anatomy*  
 FRANKLIN SAMUEL WILSON, Ph.G., M.D., *Associate in Medicine*  
 EDWARD FRANCIS GARRAGHAN, A.M., M.D., *Associate in Laryngology, Rhinology, and Otolaryngology*

<sup>1</sup>Resigned.

WALTER HENRY THEOBALD, M.D., *Associate in Laryngology, Rhinology, and Otolology*  
 HARRY LESTER BAKER, M.D., *Associate in Surgery*  
 WALTER CHARLES HAMMOND, M.D., *Associate in Obstetrics*  
 JOHN CHARLES MATHEW KRASA, M.D., *Associate in Medicine*  
 LAURENCE HAMPSON MAYERS, A.M., M.D., *Associate in Medicine*  
 LESTER EDWARD BOWER, M.D., *Associate in Pediatrics*  
 GEORGE WASHINGTON POST, JR., A.M., M.D., *Associate in Clinical Surgery*  
 FRANK LEE STONE, M.D., *Associate in Gynecology*  
 JOHN WESTON NUZUM, M.D., *Associate in Pathology and Bacteriology*  
 JACQUES HOLINGER, M.D., *Associate in Laryngology, Rhinology, and Otolology*  
 SAMUEL N CLARK, M.D., *Associate in Neurology and Psychiatry*  
 JOHN PERLY SPRAGUE, M.D., *Associate in Orthopedic Surgery*  
 ANDY M CARR, M.D., *Associate in Ophthalmology*  
 WILLIAM JOSEPH QUIGLEY, M.D., *Associate in Medicine*  
 ERNEST JASON FORD, M.D., *Associate in Surgery*

### LECTURERS

ELMER DEWITT BROTHERS, LL.B., B.S., *Lecturer on Medical Jurisprudence*  
 MATTHEW MILLS, LL.B., *Alternate Lecturer on Medical Jurisprudence*  
 BERNARD JOHN CIGRAND, M.S., DD.S., *Lecturer on the History of Medicine*

### INSTRUCTORS

ANNIE ESTHER BARRON-HARRISON, M.D., *Instructor in Obstetrics*  
 HARRY JEROME SMEJKAL, M.D., *Instructor in Genito-Urinary Surgery*  
 ARCHIE JAMES GRAHAM, M.D., *Instructor in Operative Surgery*  
 EDWARD MORTON HEACOCK, M.D., *Instructor in Obstetrics*  
 THOMAS SMITH JONES, B.F.A., *Artist in the Department of Anatomy*  
 HARRY MATTHEW JONES, Ph.D., *Instructor in Pathology and Bacteriology*  
 SOLOMON MAXWELL GOLDBERGER, M.D., *Instructor in Pediatrics*  
 CHARLES FRANCIS YERGER, Ph.G., M.D., *Instructor in Laryngology, Rhinology, and Otolology*  
 MAX MEYEROVITZ, M.D., *Instructor in Surgery*  
 FRANK JOSEPH JIRKA, M.D., *Instructor in Medicine*  
 LEO ANTHONY JUHNKE, M.D., *Instructor in Clinical Gynecology*  
 EDWIN CHRISTIAN SCHMITT,<sup>1</sup> A.M., M.D., *Instructor in Surgery*  
 MARCUS HATFIELD HOBART, M.D., *Instructor in Orthopedic Surgery*  
 HIRAM JASON SMITH, M.D., *Instructor in Laryngology, Rhinology, and Otolology*  
 MAURICE SEYMOUR MAZEL, M.D., *Instructor in Genito-Urinary Surgery*  
 GROVER TRACY, A.B., *Instructor in Physiological Chemistry*  
 WILLIAM CLYDE COMEE, M.D., *Instructor in Laryngology, Rhinology, and Otolology*  
 THOMAS J SULLIVAN, M.D., *Instructor in Orthopedic Surgery*  
 HARTLEY FARNHAM MARS, Ph.C., M.D., *Instructor in Genito-Urinary Surgery*  
 HAROLD STACY HULBERT, M.D., *Instructor in Neurology and Psychiatry*  
 ALBERT VANDERKLOOT, M.D., *Instructor in Medicine*  
 G D GERNON, *Instructor in Anatomy*  
 LYNDON HARRIS, M.D., *Instructor in Clinical Surgery*  
 JAMES TOBIAS GROOT, *Instructor in Physiology*  
 CLYDE MASON SNOW, Ph.G., A.M., *Instructor in Materia Medica and Pharmacology*  
 HALLARD BEARD, M.D., *Instructor in Ophthalmology*  
 H PRATHER SAUNDERS, M.D., *Instructor in Physiology*

<sup>1</sup>On leave of absence.

ISADORE PILOT, M.D., *Instructor in Pathology and Bacteriology*  
 DENNIS R W CRILE, M.D., *Instructor in Orthopedic Surgery*  
 JACOB WILLIAM HOLDERMAN, M.D., *Instructor in Genito-Urinary Surgery*  
 HARRY VICTOR ATKINSON, B.S., *Instructor in Pharmacology*  
 CHESTER HERBERT LOCKWOOD, M.D., *Instructor in Ophthalmology*  
 HANS NACHTIGALL, M.D., *Instructor in Obstetrics*  
 CLYDE FENWORTH KARSHNER, M.D., *Instructor in Medicine*  
 DAVID S BEILIN, M.D., *Instructor in Pharmacology and Therapeutics*  
 SAMUEL A. LEVINSON<sup>1</sup>, M.D., *Instructor in Pathology and Bacteriology*

# ASSISTANTS

JAMES JOSEPH LEACH, M.D., *Assistant in Pediatrics*  
 GOLDYE HOFFMAN, M.D., *Assistant in Gynecology*  
 LEO JACOB JACOBSON, M.D., *Assistant in Medicine*  
 CLARA GRACE GOTTSCHALK, M.D., *Assistant in Clinical Surgery*  
 ELMER W MOSELY, M.D., *Assistant in Medicine*  
 WILLIAM T ROGERS, M.D., *Assistant in Medicine*  
 ISADOR MICHAEL LEVIN, M.D., *Instructor in Pediatrics*  
 CRAIG D BUTLER, M.D., *Assistant in Pediatrics*  
 JOSEPH K CALVIN, M.D., *Assistant in Pediatrics*  
 ARTHUR R METZ, M.D., *Assistant in Operative Surgery*  
 ROBERT R MUSTELL, B.S., *Assistant in Operative Surgery*  
 JESSE LOUIS BOLLMAN, M.S., *Assistant in Physiological Chemistry*  
 MARGARET AMERTON HEATH, A.B., *Assistant in Refraction*  
 WILLIAM FRANKLIN MONCREIFF, M.S., M.D., *Assistant in Ophthalmology*  
 HONORE DIEUDONNE VALIN, M.D., *Assistant in Roentgenology*  
 LOUIS N BOELIO, *Assistant and Chief Technician in Anatomy*  
 ROBERT LUDWICK FURLY, M.D., *Assistant in Pediatrics*  
 WALTER J R HEINEKAMP, M.S., *Assistant in Pharmacology*  
 ROGER CLIFTON CANTWELL, M.D., *Assistant in Operative Surgery*  
 PAUL STERLING CARLEY, M.D., *Assistant in Surgery*  
 FREDERICK CHRISTOPHER, M.D., *Assistant in Experimental Surgery*  
 HANBY LEWIS FORD, M.D., *Assistant in Surgery*  
 ROBERT JAMES HYSLOP, M.D., *Assistant in Medicine*  
 WILLIAM ALEXANDER MALCOLM, M.D., *Assistant in Medicine*  
 WOODRUFF LYNDEN CRAWFORD, M.D., *Assistant in Obstetrics*  
 CLARENCE CHARLES SAELOHOF, M.S., *Assistant in Physiology and Physiological Chemistry*  
 CARL T STEPHEN, M.D., *Assistant in Physiology*  
 MAXWELL BOROVSKY, M.D., *Assistant in Pediatrics*  
 SIDNEY R KALISEI, M.D., *Assistant in Pediatrics*  
 PHILIP ROSENBLUM, M.D., *Assistant in Pediatrics*  
 ANNA I ROBINSON, M.D., *Assistant in Pediatrics*  
 IRVING R BROWNING, M.D., *Assistant in Operative Surgery*  
 BENJAMIN BRAUDE, M.D., *Assistant in Operative Surgery*  
 WALTER RATHFON FISCHER, M.D., *Assistant in Orthopedic Surgery*  
 GERALD D GERNON, M.D., *Assistant in Genito-Urinary Surgery*  
 VIRGIL SHEETZ COUNSELLER, M.D., *Assistant in Surgery*  
 AUBREY H. PEMBER, M.D., *Assistant in Obstetrics.*  
 VINCENT BRENDAN BOWLER<sup>1</sup>, M.D., *Assistant in Medicine*

<sup>1</sup>Second semester.

# COLLEGE OF DENTISTRY

(Harrison and Honore Streets, Chicago)

---

DAVID KINLEY, Ph.D., LL.D., PRESIDENT

FREDERICK BROWN MOOREHEAD, D.D.S., M.D., *Professor and Head of the Department of Oral Surgery, Pathology and Bacteriology and Dean of the College*

DONALD MACKAY GALLIE, D.D.S., *Professor and Head of the Department of Operative Dentistry and Operative Technics*

GEORGE WALTER DITTMAR, D.D.S., *Professor and Head of the Department of Prosthetic Dentistry and Prosthetic Technics*

FREDERICK BOGUE NOYES, D.D.S., *Professor and Head of the Department of Orthodontia and Dental Histology*

EDGAR DAVID COOLIDGE, D.D.S., *Professor and Head of the Department of Materia Medica and Therapeutics*

ALBERT CHAUNCEY EYCLESHYMER, Ph.D., M.D., *Professor and Head of the Department of Anatomy, Histology and Embryology*

GEORGE PETER REYER, Ph.D., *Professor of Physiology and Physiological Chemistry, and Head of the Department*

DAVID JOHN DAVIS, Ph.D., M.D., *Professor and Head of the Department of Pathology and Bacteriology*

LOUIS SCHULTZ, D.D.S., M.D., *Professor of Oral Surgery and Pathology*

NEWTON GEORGE THOMAS, D.D.S., *Professor of Histology and Secretary of the College*

WILLIAM HENRY WELKER, A.C., Ph.D., *Professor and Head of the Department of Chemistry and Metallurgy*

SOLOMON PERRY STARR, D.D.S., *Associate Professor of Prosthetic Technics*

ROY LEE MOODIE, Ph.D., *Associate Professor of Anatomy*

OTTO FREDERIC KAMPMEIER, Ph.D., *Associate Professor of Anatomy*

FRANK JOSEPH BERNARD, D.D.S., *Assistant Professor of Oral Surgery (extracting)*

WILLIAM IRA WILLIAMS, D.D.S., *Assistant Professor of Operative Dentistry*

JOSIAH JOHN MOORE, M.D., *Assistant Professor of Pathology and Bacteriology*

ROSCOE WINTERS UPP, D.D.S., *Assistant Professor of Prosthetic Dentistry*

FRANK HURBURN O'HARA, Ph.B., *Assistant Professor of English*

JAMES ROY BLAYNEY, D.D.S., *Assistant Professor of Therapeutics*

ARTHUR REUBEN COOPER, Ph.D., *Assistant Professor of Anatomy (Zoology)*

VICTOR THEODORE NYLANDER, D.D.S., *Assistant Professor of Operative Dentistry*

PAUL ERHARD ALBRECHT, Ph.D., *Associate in Chemistry*

KAETHE WELDER DEWEY, M.D., *Associate in Oral Surgery and Research Pathologist*

BURNE OLIN SIPPY, D.D.S., *Associate in Orthodontia*

WACLAW HOWARD KUBACKI, D.D.S., *Associate in Prosthetic Dentistry*

WILLIAM PETERSON, B.S., *Associate in Pathology*

JOSEPH CLARK STEPHENSON, Ph.D., *Associate in Anatomy*

ROBERT EDWIN WILDER, D.D.S., *Instructor in Therapeutics*

HORRY MATTHEW JONES, Ph.D., *Instructor in Pathology and Bacteriology*

L F A HEIN, D.D.S., *Instructor in Technical Drawing*

OSCAR E NADEAU, M.D., *Instructor in Anatomy*

GROVER TRACY, A.B., *Instructor in Chemistry*

ISADOR PILOT, M.D., *Instructor in Pathology and Bacteriology*



JAMES TOBIAS GROOT, B.S., *Instructor in Physiology*  
 ANNA REGINALDA BOLAN, R.N., *Instructor in Roentgenology*  
 STANLEY DANIEL TYLMAN, D.D.S., *Instructor in Prosthetic Dentistry*  
 J BYRON LA DUE, D.D.S., *Instructor in Prosthetic Dentistry*  
 FRANCIS L GORMAN, D.D.S., *Instructor in Operative Dentistry*  
 CHARLES SCHOLES, D.D.S., *Instructor in Prosthetic Dentistry*  
 JULES LE GRAND, D.D.S., *Instructor in Operative Dentistry*  
 ROBERT K ORT, D.D.S., *Instructor in Prosthetic Dentistry*  
 EDWARD JOHN KREJCI, D.D.S., *Instructor in Operative Dentistry*  
 ESTHER M HANNON, R.N., *Instructor in Oral Surgery and Supervising Nurse*  
 CHARLES E KERRICK, *Instructor in Technical Drawing*  
 ELMER DE WITT BROTHERS, LL.B., *Lecturer on Dental Jurisprudence*  
 HAROLD SELFRRIDGE STANDISH, *Lecturer on Business Practise*  
 JAMES EVERETT FONDA, D.D.S., *Assistant in Oral Surgery*  
 CARROLL W STUART, D.D.S., *Assistant in Oral Surgery (extracting)*  
 HUBBARD PRATHER SAUNDERS, M.D., *Assistant in Physiology*  
 JESSE LOUIS BOLLMAN, M.S., *Assistant in Chemistry*  
 MILZOR WILLIAM DEIST, D.D.S., *Assistant in Prosthetic Technics*  
 LUTHER L BLAINE, D.D.S., *Assistant in Prosthetic Technics*  
 EUGENE G A HEIN, D.D.S., *Assistant in Oral Surgery (extracting)*  
 CARL T STEPHAN, M.D., *Assistant in Physiology*  
 CLARENCE C SAELOHOF, M.D., *Assistant in Chemistry*  
 LOUIS N BOELIO, *Assistant in Anatomy*  
 HAROLD S CONDIT, *Assistant in Operative Dentistry*  
 MARY JUNGJOHANN, *Technician in Research*  
 FRANCES SCHWAB, *Technician in Histology*  
 MAXIMO M DE OCAMPO,<sup>1</sup> Ph.D., *Technician in Chemistry*  
 NELLIE M FRAIN, *Artist*  
 ALMA BOURGEOISE, R.N., *Nurse in the Infirmary*  
 EMMONS SYLVESTER COE, B.S., *Student Assistant in Operative Dentistry*  
 HENRY BRINKMAN, *Student Assistant in Operative Dentistry*  
 EUGENE SZWAJHART, *Student Assistant in Histology*  
 HENRY REHM, *Student Assistant in Histology*  
 CTIMIR BRAZDA, *Student Assistant in Technical Drawing*  
 TRYGVE J BERKHAUG, *Student Assistant in Technical Drawing*  
 C D LAMBIRD, B.S., *Student Assistant in Physiology*  
 RAYMOND WORSLEY, *Student Assistant in Prosthetic Dentistry*

<sup>1</sup>Resigned, January 1, 1921.

# THE SCHOOL OF PHARMACY

(Wood and Flourney Streets, Chicago)

---

DAVID KINLEY, Ph.D., LL.D., PRESIDENT

WILLIAM BAKER DAY, Ph.G., Pharm.M., *Dean, Secretary of the Faculty; Professor of  
Materia Medica and Botany*

CLYDE MASON SNOW, Ph.G., A.M., *Professor of Pharmacy*

ALBERT HENRY CLARK, Ph.G., B.S., *Professor of Chemistry*

EDMUND NORRIS GATHERCOAL, Ph.G., *Assistant Professor of Pharmacognosy*

JAMES TOBIAS GROOT, B.S., *Instructor in Physiology*

WILLIS KUHN WEAVER, A.B., B.S., *Instructor in Chemistry*

JOHN AUGUST DORJAHN, Ph.G., *Assistant in Pharmacy*

JOSEPHINE MARION DYNIEWICZ, Ph.C., *Assistant in Chemistry*

RALPH JERRY, Ph.G., *Assistant in Pharmacognosy*

# STANDING COMMITTEES OF THE FACULTIES

## COMMITTEES OF THE SENATE

*Committee on Educational Policy*—Professor E. J. Townsend (chairman), Professor S. P. Sherman, Professor L. M. Larson, Professor G. A. Goodenough, Professor W. C. Coffey, Dean C. E. Chadsey.

*Committee on Library*—Professor A. H. Daniels (chairman), Professor W. L. Burlison, Professor Kenneth McKenzie, Professor A. P. Carman, Professor J. S. Kingsley, Professor A. H. Lybyer, Director P. L. Windsor.

*Committee on Athletics*—Professor G. A. Goodenough (chairman), Professor W. S. Bayley, Professor D. H. Carnahan, Professor H. J. Barton, Director G. A. Huff.

## COMMITTEES OF THE COUNCIL OF ADMINISTRATION

*Committee on Discipline for Men*—Dean T. A. Clark (chairman, *ex officio*), Professor Frederick Green, Professor G. A. Goodenough, Professor F. H. Rankin, Associate Professor Gordon Watkins.

*Committee on Discipline for Women*—Dean Ruby E. C. Mason (chairman, *ex officio*), Miss Emma L. Wardell, Miss Florence H. Churton.

*Committee on Student Organizations and Activities*—Professor F. R. Watson (chairman), Assistant Dean Horace B. Garman (secretary), Dean Ruby E. C. Mason (*ex officio*), Dr. Gertrude Moulton, Assistant Professor H. F. Harrington.

*Advisory Committee on Home-Coming*—Director G. A. Huff (chairman), Mr. G. H. Radebaugh, Assistant Professor F. W. Scott, Assistant Dean Horace B. Garman.

*Committee on Loan Funds*—Dean T. A. Clark (chairman) Assistant Dean H. V. Canter, Assistant Dean H. H. Jordan.

*Committee on Students' Mutual Benefit Hospital Fund*—Dean T. A. Clark.

*Committee on Accredited Schools*—Assistant Professor B. S. Hopkins (chairman), Professor H. A. Hollister, Professor W. S. Robertson, Registrar G. P. Tuttle, Assistant Professor E. B. Lytle.

*Committee on Appointment of Graduates*—Professor B. R. Buckingham (chairman) Professor H. G. Paul, Professor H. A. Hollister.

*Committee on Catalog*—Registrar G. P. Tuttle (chairman), Professor L. H. Smith, Professor C. A. Ellis, Assistant Professor F. W. Scott, Director H. E. Cunningham.

*Committee on Students' Use of English*—Professor C. A. Ellis (chairman), Assistant Professor J. Zeitlin, Professor J. A. Detlefsen, Professor Frederick Green, Assistant Professor E. J. Filbey.

*Faculty Members of the Illini Board*—Assistant Professor F. W. Scott (chairman), Dean T. A. Clark, Associate Professor R. M. Story.

*Faculty Members of the Board of Advisers of the Star Course*—Comptroller Lloyd Morey (chairman), Director J. L. Erb, Registrar G. P. Tuttle.

*Committee on Rhodes Scholarships*—Dean K. C. Babcock (chairman), Dean T. A. Clark, Professor Ernest Bernbaum.

## COMMITTEE ON ADMISSIONS FROM HIGHER INSTITUTIONS

Professor L. M. Larson (chairman), Professor H. B. Ward, Professor M. L. Enger, Professor J. W. Lloyd, Mr. C. M. McConn, Professor H. A. Hollister (*ex officio*), Registrar G. P. Tuttle, secretary, (*ex officio*).



**PART I**  
**GENERAL INFORMATION**



## LOCATION

---

The University of Illinois is situated in Champaign County, about fifty miles northeast of the geographical center of the State. It is 126 miles south of Chicago, 118 miles west of Indianapolis, 164 miles northeast of St. Louis.

The campus of the University lies partly within the corporate limits of the city of Urbana and partly within the corporate limits of the city of Champaign. The two municipalities form one community of about twenty-nine thousand inhabitants. The city halls of the two towns are two miles apart, the campus half way between. The railway, express, telegraph, and telephone services of both cities are available for the University. Mail for the institution itself should be directed to Urbana to insure prompt delivery. The Urbana post office maintains a sub-station at the University, located in the Library Building.

### Urbana-Champaign

The cities of Urbana and Champaign are in the heart of the "Corn Belt" and form the business and social center of a rich farming community.

In matters pertaining to health, conditions are good. There is a hospital within three blocks of the campus, in which students may be cared for at moderate expense. The University maintains a temporary emergency hospital.

The University has no dormitories for men, and one residence hall for women. The number of boarding houses is large, and there are sixty-three residence halls erected by fraternities, sororities, and local clubs.

There are thirty-six churches, representing thirteen denominations, and a number of students' religious associations, leagues, and guilds, including Young Men's and Young Women's Christian Associations.

### Railway Connections

The University is connected with neighboring cities in Illinois, including Bloomington, Danville, Decatur, Peoria, and Springfield, and also with St. Louis, by the electric inter-urban lines of the Illinois Traction System.

It may be reached from Chicago and the north and from points in the south by the Illinois Central Railroad, being on the direct line from Chicago to Cairo and New Orleans. It is joined to the east and the west by the Peoria & Eastern Division of the "Big Four" route, as well as by the division of the Wabash Railway which connects Kansas City and St. Louis with Detroit and Buffalo.

The station of the Illinois Central Railroad is in Champaign. The Wabash and "Big Four" have stations in both Champaign and Urbana. There are several hotels in Champaign and Urbana within easy reach of the University, the Beardsley and the Inman in Champaign and the Columbian in Urbana being the largest.

# HISTORY

---

## *1862. The Morrill Land Grant*

By this act the national government donated to each state in the Union public land scrip, in quantity equal to 30,000 acres for each senator and representative in Congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanical arts, \* \* \* \* \* in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the State pays the University, semi-annually, interest at the rate of five per cent on about \$649,000.

## *Location chosen*

To secure the location of the University several counties entered into competition by proposing to donate to its use specified sums of money or their equivalent. Champaign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and \$100,000 in county bonds. To this the Illinois Central Railroad added \$50,000 in freight.

## *1867. Incorporation*

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University. It was placed under the control of a Board of Trustees, consisting of the Governor, the Superintendent of Public Instruction, and the President of the State Board of Agriculture, *ex officio* members, and twenty-eight citizens appointed by the Governor. The chief executive officer was called the Regent, and was made *ex officio* member of the Board and the presiding officer of both the Board of Trustees and the Faculty. (See also 1873 and 1887 below.)

## *1867. Dr. Gregory Regent*

On March 12, 1867, John Milton Gregory, LL.D., was elected Regent of the University. On April 1, 1867, Dr. Gregory accepted the position and entered on his duties. He served as Regent until September 1, 1880.

## *1868. The University opened*

The University opened on March 2, 1868. The number of students enrolled was about fifty; the faculty consisted of the Regent and two professors. During the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra, geometry, physics, history, rhetoric, and Latin. Work on the farm and gardens or about the buildings was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was to serve as a part of instruction.

## *1868-69. The first laboratories*

During the autumn of 1868 a chemical laboratory was fitted up, and laboratory work in botany was begun the following year.



### 1870. *Pioneer shop instruction*

In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the *first shop instruction* given in any American university. In the summer of 1871 the Wood Shops and Testing Laboratory (burned on June 9, 1900) were erected and equipped for students' shop work in both wood and iron.

### 1870. *Women admitted.*

On March 9, 1870, the Trustees voted to admit women as students. In the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

### 1873. *First reorganization of the Board of Trustees*

At this time the number of members was reduced from thirty-two (see 1867 above) to eleven—the Governor and the President of the State Board of Agriculture, *ex officio*, and nine others, who were still appointed by the Governor. Beginning at this time also, the President of the Board has been chosen by the members from among their own number for a term of one year. (See also 1887 below.)

### 1877. *Authority to confer degrees received*

According to the original State law, the usual diplomas and degrees could not be granted by the University; certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

### 1880-81. *Dr. Peabody Regent*

In June, 1880, Regent Gregory's resignation was accepted to take effect September 1, 1880, and Selim Hobart Peabody, A.B., Ph.D., Professor of Mechanical Engineering and Physics, was made Regent *pro tempore*. At the next annual meeting, in March, 1881, he was elected Regent.

### 1885. *Change of name*

In this year the General Assembly changed the name of the institution from the *Illinois Industrial University* to the *University of Illinois*.

### 1885. *The State Laboratory of Natural History transferred to the University*

Merged in the State Natural History Survey in 1917. (See page 439.)

### 1887. *Second reorganization of the Board of Trustees*

In 1887 a law was passed making membership in the Board elective, at a general State election, and restoring the Superintendent of Public Instruction as an *ex officio* member. There were then, therefore, three *ex officio* and nine elective members. (For the previous organization of the Board see 1867 and 1873 above. See also 1919 below.)

### 1887. *The Agricultural Experiment Station established at the University*

See page 433.

### 1890. *Additional Federal endowment*

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university received the first year \$15,000, the second year \$16,000, and in each succeeding year a sum larger by \$1,000 than the amount of the preceding year, until the amount reached \$25,000; this sum was to be paid yearly thereafter.

*1891. Dr. Burrill Acting Regent*

In June, 1891, Regent Peabody's resignation was accepted, to take effect September 1, and in August, Thomas Jonathan Burrill, A.M., Ph.D., Professor of Botany and Horticulture, was appointed Acting Regent. Dr. Burrill served in this capacity until September, 1894.

*1892. The Graduate School*

Beginning with this year, graduate work was undertaken under the name of the Graduate School, but without the organization of a separate faculty.

*1894. The Summer Session*

The first Summer Session of the University was authorized by a vote of the Trustees on March 3, 1894, and was opened in June of that year.

*1894. Dr. Draper President*

On April 13, 1894, Andrew Sloan Draper, LL.D., was elected Regent. He accepted May 10, 1894. On August 1, his title was changed to President. Dr. Draper entered on his duties on August 1, 1894. He served until June, 1904.

*1896. The School of Pharmacy*

On May 1, 1896, the Chicago College of Pharmacy, founded in 1859, became the School of Pharmacy of the University of Illinois.

*1897. The College of Medicine*

Negotiations looking to the affiliation of the College of Physicians and Surgeons of Chicago with the University, which had been going on for several years, were concluded by the Board of Trustees March 9, 1897. Accordingly, the College of Physicians and Surgeons became, on April 21, 1897, the College of Medicine of the University of Illinois. (The College of Medicine was discontinued on June 30, 1912, but was re-opened on February 12, 1913.)

*1897. The School of Music*

By vote of the Trustees on June 9, 1897, the department of music, which had been reorganized and enlarged in 1895, was erected into the School of Music, with a separate faculty and organization.

*1897. The State Water Survey authorized*

See page 440.

*1897. The Library School*

In 1897 the School of Library Economy, which had been established in 1893 at the Armour Institute of Technology in Chicago, was transferred to the University, the Director of that school was appointed Librarian of the University Library, and the Library School was opened.

*1897. The College of Law*

Pursuant to an action of the Board of Trustees, taken December 8, 1896, the School of Law was organized, and was opened September 13, 1897. The course of study covered two years, in conformity with the then existing requirements for admission to the bar of Illinois. In the following November the Supreme Court of the State announced rules relating to examinations for admission to the bar which made three years of study necessary,

and the course in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to *College of Law*.

1899. *The State Entomologist's Office permanently established at the University.* Merged in the State Natural History Survey in 1917.

See page 439.

1900. *Courses in Business Administration*

In 1900 the General Assembly made an appropriation for the establishment of courses of training for business life, and, in accordance with that action, the Trustees approved the organization of the Courses in Business Administration. (See also 1915 below.)

1901. *The College of Dentistry.*

In accordance with an action taken by the Board of Trustees on March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School was opened October 3, 1901. The name was changed to *College of Dentistry* on April 27, 1905. (The College of Dentistry was discontinued on June 30, 1912, but was re-opened on October 1, 1913.)

1903. *The Board of Examiners in Accountancy created*

See page 443.

1903. *The Engineering Experiment Station established*

See page 436.

1904. *Dr. James President*

On March 9, 1904, President Draper's resignation was accepted, to take effect July 1. On August 23, 1904, Edmund Janes James, Ph.D., LL.D., was elected President. He accepted on August 26, 1904, and entered on his duties in the fall of that year. He was appointed President *Emeritus* beginning September 1, 1920.

1905. *The School of Education*

By a vote of April 27, 1905, the Board of Trustees established the School of Education, to provide for the professional training of teachers. (See also 1918 below.)

1905. *The State Geological Survey established.*

See page 441.

1906. *Adams Fund*

This fund was created by an Act of Congress dated March 16, 1906, and provides for an appropriation of \$5,000 for the year ending June 30, 1906, and an increase of \$2,000 a year for five years. The present appropriation to the University under the Adams Act is, therefore, \$15,000 a year. Its use is limited to the necessary expenses of original research and experimental work in agriculture.

1907. *Nelson Fund*

This fund was created by an Act of Congress dated March 4, 1907, and carried with it an appropriation of \$5,000 for the fiscal year ending June 30, 1908, and an annual increase of \$5,000 for four years. The present appropriation to the University under the Nelson Act, is, therefore, \$25,000 per year. Its uses are identical with those of the Morrill Fund.

*1906-7. The School of Railway Engineering and Administration*

On January 30, 1906, the Board of Trustees created in the College of Engineering a department of railway engineering; on January 22, 1907, supplementing that action, it established the School of Railway Engineering and Administration. (See also 1917.)

*1906-7. The Graduate School organized as a separate faculty*

The General Assembly appropriated \$50,000 for the Graduate School, and the Executive Faculty of that school was organized.

*1909. The Department of Mining Engineering*

The General Assembly established the Department of Mining Engineering in the College of Engineering.

*1911. The Mill Tax*

The General Assembly passed a law providing that in the year 1912, and annually thereafter, the proceeds of a tax of one mill for each dollar of the assessed valuation of the taxable property of the State should be set apart as a fund for the maintenance of the University.

*1911. Cooperative Investigation of Illinois Coal Problems*

See page 444.

*1912. The Colleges of Medicine and Dentistry discontinued*

The Colleges of Medicine and Dentistry were discontinued on June 30, 1912.

*1913. The Colleges of Medicine and Dentistry re-opened*

On February 12, 1913, the Board of Trustees accepted the gift of the capital stock of the College of Physicians and Surgeons, donated to the University by the alumni and other friends of medical education in Chicago, and the College of Medicine was re-opened.

The College of Dentistry was re-opened on October 1, 1913.

*1913. The College of Liberal Arts and Sciences*

In this year the College of Literature and Arts and the College of Science were united to form the College of Liberal Arts and Sciences.

*1915. The College of Commerce and Business Administration*

The Courses in Business Administration, organized in 1900, were erected into a separate College of Commerce and Business Administration.

*1917. The School of Railway Engineering and Administration suspended*

In 1917, the activities of this school were suspended because the leading members of its faculty were called away for war service.

*1918. The University Press*

On June 1, 1918, the Board of Trustees authorized the organization of the University Press, to have charge of the editorial, printing, and publishing activities of the University. (See page 421.)

*1918. The College of Education*

On June 1, 1918, the Board of Trustees voted to erect the School of Education into a separate College of Education.

*1919. Third Reorganization of the Board of Trustees*

In 1917, the General Assembly passed a law reorganizing the administration of the State, by virtue of which the office of the President of the State Board of Agriculture was abolished on January 1, 1919. There are now, therefore, eleven members, two *ex officio* and nine elective.

*1920. Dr. Kinley President*

On June 10, 1919, President James was granted a leave of absence extending to September, 1920. Dr. David Kinley, Ph.D., LL.D., was appointed Acting President for that period. On June 2, 1920, following President James's resignation in March, Dr. Kinley was elected President.

# EQUIPMENT

---

## BUILDINGS AND GROUNDS

The Land occupied by the University embraces 238 acres, besides a farm of 991 acres. There are at the present time some fifty-three buildings on the campus.

### Liberal Arts

*University Hall* (erected 1873) is the "old main building" of the University. It occupies three sides of a quadrangle, and is five stories in height. It is devoted to class rooms and offices.

*Lincoln Hall* (erected 1911) has a frontage of 230 feet. The exterior is brick, stone, and terra cotta. The building provides for the advanced work of the departments of the classics, English, Romance languages, Germanic languages, history, economics, education, political science, sociology, and philosophy. The first three floors provide, in addition to the ordinary class and consultation rooms, seminar libraries and conference rooms. On the fourth floor are research rooms and two museums, the Museum of Classical Art and Archeology, and the Museum of European Culture.

### General Science

*The Laboratory of Physics* (erected 1909) is a three-story fireproof brick building trimmed with Bedford limestone. The length is 178 feet and the depth of the wings is 125 feet. The lecture room has a seating capacity of two hundred sixty-two. A one-story annex, 78 by 28 feet, contains the ventilating and heating fans and the machine shop of the department. The total available floor area, exclusive of the basement, is about 60,000 square feet. The large laboratories and the recitation rooms are mostly in the west wing. The east wing contains about thirty smaller laboratories for advanced experimental work. The department of blue printing and photography occupies rooms on the top floor of the building. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents of a wide range in amperes and in volts are available in all parts of the building.

*The Chemistry Laboratory* (original structure erected 1901-2; addition 1914-15) is a brick building. The original structure is of slow burning construction, and the addition is fire-proof. The total available floor area is about 164,000 square feet. The ground plan is a hollow square, the extreme dimensions of which are 230 feet along the front, and 200 feet along the sides. The center court contains the lecture amphitheater, which seats 390. The side wings of the building contain the general laboratories, while the center portions of both old and new structures are occupied by offices, class and seminar rooms, library, museums, supply rooms, and research laboratories. The main storeroom is in the basement under the lecture room. In this building are also located the offices and laboratories of the State Water Survey and the department of bacteriology.

*Natural History Hall* (old part erected 1892; addition 1909) covers a ground area of 135 feet by 275 feet. It is occupied by the departments of botany, entomology, zoology, physiology, geology, and mathematics, and the offices of the State Natural History Survey and the State Entomologist. A fireproof museum 51 feet by 63 feet in size, equipped with fireproof and dustproof cases, occupies the center of the building.

*The Botany Annex* (erected 1914) is a greenhouse laboratory covering 5,000 square feet, divided into compartments that are severally provided with devices for controlling humidity

and temperature within close limits for exact experimentation in the fields of plant physiology and pathology. To this laboratory is attached a reconstructed two-story dwelling, giving working and class rooms for use in connection with the experiments conducted under glass.

*The Vivarium* (erected 1915-16) occupies the block south of the Illinois Traction System tracks, between Wright and Sixth Streets, the main facade of the building being toward Healey street. The scheme involves a main building containing eight laboratories, one office, and store rooms, with supplementary greenhouses at each end, and a head house serving two greenhouses, together with two screened houses. The main building is a brick structure, two stories high, connected with the head house by a one-story passage from the main corridor. The building is occupied by the departments of zoology and entomology.

*The Entomology Building* (erected 1905 for the use of the State Entomologist and his staff) is a two-story building 48 by 20 feet, with basement storerooms, and with two insectary wings of greenhouse construction, each 25 by 20 feet. It contains the office of the horticultural inspector, a stenographer's room, rooms for the assistant inspectors and insectary assistants, and a large fireproof vault. The glass-covered wings are equipped for experimental entomology and life-history studies.

*The Astronomical Observatory* (erected 1896) is a brick building with extreme dimensions of 75 by 55 feet. It has three wings and is surmounted by a dome 25 feet in diameter, which houses the 12-inch refracting telescope. An adjacent building with a 15-foot dome, erected in 1914, contains a 30-inch short focus reflector.

### Commerce and Business Administration

*The Commerce Building* (erected 1912) is a fireproof building three stories high, 153 feet on the front and 60 feet deep, with a one-story annex containing a lecture room 48 feet square. The building has a total floor area of about 29,000 square feet; it provides class rooms, offices, and laboratories for the work in business administration. The exterior first story finish is buff Bedford stone; the second and third stories are of brick with carved stone trimmings and cornice. The roof is of tile, and the interior trim is of dark oak. The Administration Building (see page 57) is a second unit of this building and will eventually be occupied by this College.

### Education

*The Education Building* (erected 1917-18) is a fire proof structure of reinforced concrete, faced with Bedford limestone, and is of collegiate Gothic design. It occupies a ground area 69 by 198 feet. It will be occupied in the autumn of 1921 by the College of Education as a model high school, the college furnishing the corps of instructors, under whom the students in the school receive their practical teaching experience. The first floor contains locker and toilet rooms for boys and girls, rooms for manual training, mechanical drawing, sewing and domestic science, as well as general class rooms and the offices of the principals. On the second floor is the library, rooms for the commercial department, and various class rooms. Chemistry, physics, biology, and agriculture take up the greater part of the third floor, the remainder being devoted to class rooms. This building is the first unit of a structure which will occupy the entire block.

### Engineering

*Engineering Hall* (erected 1894) is a four-story building, with a frontage of 200 feet, a depth of 76 feet on the wings and 138 feet on the center, and a floor area of 47,000 square feet. The first and second floors are occupied by the offices and recitation rooms, and the

instrument and drafting rooms of the departments of civil engineering and municipal and sanitary engineering. The engineering lecture room, on the second floor, has a seating capacity of two hundred twenty-five. The third floor is occupied by the offices of the Dean of the College of Engineering and Director of the Engineering Experiment Station, and by offices, recitation, and drafting rooms of the departments of mechanical engineering and architecture. All of the fourth floor is occupied by the department of architecture.

*The Electrical Engineering Laboratory* (erected 1898) is a two-story brick building with floor area of 18,000 square feet. The basement contains the departmental shop, the storage battery room, the electric furnace room, and rooms for electrical research. The first floor contains the undergraduate laboratory, the instrument room, the high potential laboratory, and the drafting, lecture, and recitation rooms. The second floor contains the photometric laboratory, the offices, the departmental library, and a room used by the Electrical Engineering Society.

*The Mechanical Engineering Laboratory* (erected 1905, remodeled 1917) is a brick building 120 by 182 feet. In 1916 the interior was changed to provide for a basement with an elevated or mezzanine operating floor, giving a floor area for laboratory purposes of 28,000 square feet. On the mezzanine floor is mounted all of the principal equipment of the laboratory; in the basement auxiliary apparatus is housed. The front section is two stories high and together with the two-story addition to the south contains offices, lecture and computation rooms, a lavatory, and an instrument room. The main laboratory is divided into three bays, each approximately 40 feet wide. The middle bay is provided with a ten-ton three-motor traveling crane, and the north bay with a five-ton hand operated traveling crane. In the basement two flumes, each three feet deep by four feet wide and 120 feet long, together with a storage reservoir having a capacity of 7,000 gallons, provide for the measurement and storage of water.

*The Laboratory of Applied Mechanics* (erected 1901-2) is a brick building having a floor area of 16,000 square feet. The front part contains the materials testing laboratory, and the rear wing the hydraulics laboratory.

*The Highway Laboratory* (erected 1910) is a two-story brick addition to the Mechanical Engineering Laboratory, containing the laboratories and certain recitation rooms and offices of the department of civil engineering, which are closely associated with the work of testing materials used in road construction, and with researches in the development of such materials.

*The Mining Engineering Laboratory* (erected 1912) is a one-story brick building, having a floor area of 5,700 square feet. It is divided into five units. (1) Coal washing and preparation; (2) Ore-dressing and metallurgy; (3) Mining, including blasting and explosives; (4) Chemical analysis and sampling; (5) Gas analysis, safety lamps and ventilation.

*The Ceramic Engineering Kiln House* (erected 1912) connects with the ceramic engineering building. It has a floor area of 11,200 square feet, and contains the kilns, furnaces, and heavy machines for working clays.

*The Ceramic Engineering Building* (erected 1915-16) is a three-story structure, 188 by 65 feet, of fireproof construction, built of texture brick and polychrome terra cotta. The front of the building is decorated with colored tile panels. The roof is of Spanish tile, and the floor of the halls and corridors of clay tile. The structure is intended to present modern achievement in the use of ceramic structural materials. The third floor is occupied by the State Geological Survey and about one-third of the first floor by the department of applied mechanics. The main portion of the building is utilized by the recitation rooms, laboratories, and offices of the department of ceramic engineering.

*The Locomotive Testing Laboratory* (erected 1912) is a brick fireproof building 117 by 42 feet, connected by a spur with the Illinois Traction System tracks. It houses a locomotive testing plant, which consists of supporting wheels on which rest the drivers of the locomotive



to be tested, a dynamometer to which the locomotive drawbar is attached, and which measures the tractive force exerted by the locomotive, water brakes for absorbing the power developed by the locomotive, and other auxiliary apparatus. The exhaust gases pass through an asbestos board duct to a large fan which forces them through a reinforced concrete cinder separator; the separator removes the cinders and discharges the gases into the air through a brick stack eight feet in diameter.

*The Transportation Building* (erected 1912) is a three-story fireproof building of brick trimmed with stone. The building is 65 by 189 feet and the total floor area is 34,225 square feet. The first and second floors of the building are occupied by the departments of railway and mining engineering, and the third floor by the department of general engineering drawing.

*The Metal Shops* (erected 1902) occupy a one-story brick building with a floor area of 12,000 square feet, containing office rooms, a machine shop, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a twenty-horse-power electric motor. A three-ton traveling crane of ten-foot span covers the center of the floor for the entire length.

*The Wood Shop* (erected 1901-2) and the *Foundry* (added 1904) occupy a brick building which has a floor area of 16,000 square feet. The wood shop contains a bench room, lathe room, machine room, and various smaller rooms for lectures and exhibition purposes. The foundry has a molding floor 35 by 80 feet, traversed by a five-ton traveling crane, and a basement room for the storage of materials.

### Agriculture

*The Agriculture Building* (erected 1900) consists of four separate structures, built around a court and connected by corridors. The court was enclosed in 1912 and divided into five large class rooms. The main building, three stories high, contains offices, class rooms, and laboratories for the departments of agronomy, animal husbandry, dairy husbandry, and horticulture; the chemical laboratory of the Experiment Station; administration rooms; and assembly room (Morrow Hall) with a seating capacity of 500. The other three buildings are two stories high; one is for dairy manufactures, one for farm crops, and one for class rooms and laboratories. These buildings are of stone and brick, roofed with slate, and contain 113 rooms and a total floor space of about two acres.

*The Agronomy Building* (erected 1904-5) is a brick and slate structure 50 by 100 feet. It contains a field laboratory and storage room for crop work.

*The Agronomy Greenhouse* (erected 1900, rebuilt 1912) consists of two glass structures covering a total floor space of 6,500 square feet, and a service building equipped with research and photographic laboratories.

*The Agronomy Barn and Implement Shed* (barn 1915; shed 1918) are wooden structures respectively 26 by 70 feet, and 33 by 100 feet, designed as service and storage buildings for the field work of the department of agronomy.

*The Animal Husbandry Cattle Feeding Plant* (first unit erected 1917) is of brick and frame construction with a tile roof, located on the axis of Fourth Street, south of the "Farm Lane." There are eight silos built in a circle to enclose a feed room. The two to the south are 16 by 70 feet, and the others are 12 by 40 feet. The plant will also be used as a storage place for feed for the animal husbandry department. In the section not yet built the upper stories will be constructed as an elevator with large grain bins, where grain can be elevated, preparatory to grinding, shipping, or feeding. There will be a corn crib with a capacity of 12,000 bushels.

*The Farm Mechanics Building* (erected 1906-7) is a three-story brick structure, containing class rooms, offices, lecture rooms, drafting room, library, laboratories, and tool and storage rooms. The third floor furnishes storage room for the greater part of \$16,000 worth of farm machinery, lent the College by manufacturing companies and used for labora-

tory work. The facilities afforded by this building, with its equipment, make possible the assembling, testing, and adjusting of all the important machines used in farm operations.

*The Pure Bred Dairy Cattle Barn* (erected 1891, remodeled 1895 and 1901) consists of a main two-story wooden structure 104 by 48 feet, a wing to the east 74 by 30 feet, and a shed for young stock at the south 72 by 30 feet. About 40 head of milking cows in addition to young stock and bulls are accommodated. Two Gurler silos are at the south and a wooden stave silo at the east.

*The Animal Pathology Laboratory* (erected 1904-5, as a Beef Cattle Building) is a one-story structure of brick and slate, trimmed with stone, 217 feet across the front, with a wing at either end 33 by 49 feet; the central portion rises two stories and is used for the storage of feed. This building was remodeled in 1919 for use by the Division of Animal Pathology in the Department of Animal Husbandry.

*The Experimental Dairy Barns* (erected 1912) comprise three round barns, the largest being 70 feet in diameter with a reinforced concrete silo in the center, a semi-detached rectangular structure 40 by 70 feet with a Grout silo adjacent, and a small dairy house and shop 26 by 32 feet. The barns are of frame construction on brick walls with solid floors of the mill type of construction, and contain feed rooms, hay lofts, and other accommodations for the experimental dairy herd. The dairy house is of frame construction, two stories in height, and contains office, shop, coal room, dairy room, and four sleeping rooms for employees.

*The Sheep Barn* is a wooden structure consisting of a main barn 36 by 90 feet, and a shed, opening to the south, 25 by 100 feet in size. A six-foot aisle, lined by pens on each side, runs through the center of the barn. This building besides accommodating the University flock is used for experimental work.

Other buildings on the South Farm for the accommodation of live stock are three horse barns and the piggery.

*The Stock Pavilion* (erected 1913) is a fireproof building 54 feet high on the front and 148 feet deep with circular ends 92 feet in diameter and 20 feet high. The total ground area is 30,000 square feet, and the show arena is 216 feet long and 65 feet wide. Seats of concrete provide accommodations for 2,000. The arena may be divided into three parts, giving three separate judging rooms. The building also contains class rooms and offices. The exterior is of brick and terra cotta, renaissance in design, the frieze being enriched with medallions of animal heads.

*The Genetics Building* (erected 1915-16) is a one-story brick structure (located on Farm Lane and Mathews Avenue) housing the laboratories, offices, and animal rooms of the department of genetics. The work carried on in this building is done principally by graduate students.

*The Horticulture Building* (erected 1904-5) is a structure of brick and slate trimmed with stone, approximately 50 by 100 feet in size. It is used as a field laboratory for horticultural tests, and contains sorting and storage rooms and a laboratory for the mixing of spraying materials and other operations in connection with the horticultural work.

*The Horticulture Greenhouse Group* (erected 1912-13) includes (1) a floricultural group and (2) a vegetable and plant breeding group.

(1) *The Floriculture Greenhouse Group* (erected 1912-13) consists of a two-story and basement service building 93 by 37 feet, and the following glass structures: four houses each 105 by 28 feet, three houses each 105 by 35 feet, one corridor house 139 by 10 feet, one storage house 50 by 12 feet, and a palm house 80 by 40 feet. The service building is of hollow tile and cement construction, and contains laboratories, lecture room, sales room, offices, and seminar room, as well as potting, storage, and work rooms.

(2) *The Vegetable and Plant Breeding Greenhouse Group* (erected 1912-13) consists of

a glass house for vegetable growing 105 by 28 feet, two houses for plant breeding each approximately 80 by 30 feet, a wire house 80 by 30 feet, and a two-story and basement service building 82 by 36 feet, containing laboratories, work rooms, class rooms, offices, and storage rooms. The type of construction of this building is the same as that of the floriculture service building.

### Law

*The Law Building* (erected 1878; remodeled 1902 and 1912) is the second oldest building in the University group. It has two stories and a basement. The upper floor contains the Law Library, the students' conference room, the private offices of the members of the law faculty, and the Moot Court Room, a model court room with a seating capacity of four hundred. On the main floor are the recitation rooms, the Dean's offices, and the faculty room. In the basement are the lockers, the students' reading room, and a court room for the Law Clubs.

### Military Science

*The Armory* (erected 1914-15) comprises a drill room with a clear area of 200 by 400 feet and a height of 98 feet at the center, the roof being carried by fourteen three-hinged steel arches. The sides are of hollow tiles and the ends, supported by columns, are of steel, glass, tile, and concrete, with wood frames and sashes. The drill floor is of sufficient area to permit the maneuvering of an entire battalion of the cadet brigade. Provision has been made for the addition of the balcony around the drill floor with seats for 3,000 and for the addition of three-story facades along the sides flanked by towers at each end. This will provide space for company rooms, locker rooms, shooting tubes, and class rooms.

*The Field Artillery Stable* (erected 1919), a one-story stucco building in Italian style, provides space for animals belonging to the R. O. T. C. Artillery and Cavalry units. This structure is the first and chief building of a group which will ultimately house all material and equipment of these units and afford working and living quarters for the permanent personnel.

### Music

*The Smith Memorial Hall* (erected 1918-19) is a fire-proof building of brick and stone exterior, occupied by the School of Music. The area occupied is 126 by 163 feet, extending in height through a basement, two stories, and attic. The basement is occupied by plenum chambers, machinery, and dressing rooms. On the first floor are the Director's suite, two class rooms, and seven studios, together with the first floor of the recital hall. The second floor contains the Memorial Room dedicated to the donor, Captain Thomas J. Smith and his wife, Tina Weedon Smith, to whom the building is dedicated as a memorial, and the Library, with a score trial room, and eleven studios. This floor also affords access to the balcony of the recital hall, which with the first floor gives a total seating capacity of about 1,100 persons. The third floor contains forty-seven practise rooms, and a lecture room seating about 100. All studios and practise rooms are thoroly sound-proofed and insulated from one another.

### Buildings for General University Use

*The Administration Building* (erected 1914-15) is a three-story and basement fireproof building of brick and stone. It is 153 by 66½ feet with a one-story annex, 48 by 42 feet, with a total floor area of 36,000 square feet; it contains the rooms of the Board of Trustees and the offices of the President, the Registrar, the Comptroller, the Supervising Architect, the Dean of Men, the High School Visitor, the Assistant Dean to Foreign Students, the

Alumni Association, the University Press, and the Information and Stenographic Bureau. This building is the second unit of the Commerce Building, and will eventually be occupied by that College.

*The Library Building* (erected 1896-97; an addition to the stack room erected 1914; further addition erected 1918) is modern Romanesque in style, is built of Minnesota sandstone, and measures 167 by 141 feet, with a tower 132 feet high. The first floor, or basement, contains the rooms of the catalog and order departments, the bound newspapers, and the University Station post office. The second, or main floor, contains the general reference room, the periodical reading rooms, a small conference room, and the delivery room, which opens into the second story of the stack. The third floor contains the study room, lecture rooms, and office of the Library School, faculty study room, and the office of the librarian. The five-story book stack is a rear wing to the building, separated from it by a fireproof wall. The delivery room is open to the roof and is lighted by a dome of art glass; the lunettes are decorated with frescoes symbolic of the four older colleges of the University—Literature and Arts, Science, Agriculture, and Engineering.

The latest addition is  $37\frac{1}{2}$  by 79 feet on the ground, and contains four stories of stacks. Above this is a room covering the entire area of the building, which is used as a work room. This addition also contains an unpacking room, a storage room, and an elevator tower.

*The Auditorium* (erected 1907-8) is a brick and stone building for general meeting purposes. It contains an auditorium seating about 2,200, a memorial vestibule, and a four-manual organ. All general University exercises and convocations are held in this building.

*The Men's Gymnasium* (erected 1901) is a three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, 26 feet wide, 75 feet long, and 8 feet deep at the lower end, lined with white enamel bricks. The water is filtered and sterilized by continuous circulation through a violet-ray sterilizer. This floor contains also the general locker room, which is fitted up with all-metal lockers, and with shower bath, and steam baths; rooms for the University Athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and the instructors in athletics. The entire second floor is one room, fitted up with modern appliances for gymnastic exercises. The third floor contains an elevated running track, 15 laps to the mile, banked on the turns to secure speed and comfort in running.

*The Gymnasium Annex* (erected 1889-90) has a clear floor space of 15,000 square feet in one hall, while the addition (erected 1918) gives an additional clear area of about 7,500 square feet.

*The Woman's Building* (erected 1905; addition 1912) is in the New England colonial style of architecture, of reddish brown brick, with white stone trimmings. The central part of the structure is the woman's gymnasium. On the lower floor there are swimming tank, lockers, dressing rooms, and baths. The upper floor is devoted to the main gymnasium, which is 92 by 50 feet. The north wing of the building is given to the department of home economics, and the south wing provides rooms for the social life of the women students. The addition is a three-story fireproof building and basement. It is 200 feet long on the front and 83 feet on each connecting wing, having 43,000 square feet of floor area. It has a large colonnade with towers on the front and two smaller colonnades on the north and south of the inner court. The addition is similar to the old building in finish. It has two halls for literary societies and a modern flat on the upper floor, and an institutional kitchen and large dining room on the second floor. There are also offices for the Dean of Women and the Director of the Courses in Home Economics, laboratories, social rooms, and space for the expansion of gymnasium work.

### The President's House

*The President's House* (erected 1896) is a three-story frame building, in the colonial style. This building was remodeled in 1919 and equipped for use by the University Health Service.

*The President's House* (acquired in 1917) is located at 1203 W. Nevada Street, Urbana. It is a two-story stucco building in the modern English style. It contains the usual living and service rooms of a ten-room house, and is featured by a large living-porch opening into an old-fashioned trellis-walled garden.

### Women's Residence Hall

*The Women's Residence Hall* (erected 1917) is located on Nevada Street north of and adjacent to the new athletic field for women. It is a three-story fireproof brick and stone building of colonial design, U-shaped in plan, with a total frontage of 167 feet and wings running back 101 feet. It will accommodate 112 girls. There are both double and single rooms, a suite for the matron, an emergency hospital, and rooms for servants. The basement contains the kitchen and a large dining room in each wing overlooking the sunken garden in the court. There are also lockers and shower accommodations for non-resident girls who use the adjacent athletic field. In the center of the first floor there is a large living room with adjoining parlors. The wings on each side of the first floor are at a higher line and are occupied by student rooms. There is a large sleeping porch at the south end of each wing on each floor.

### The Isolation Hospital

*The Isolation Hospital* (erected 1908; reconstructed 1914, 1917, and 1919) has been used for for its present purpose since 1914. It is a substantial one-story stucco building 27 by 103 feet, with a subsidiary service building with a kitchen and additional ward space. The basement of the main building contains a supply room, a laboratory, and a complete disinfecting suite, consisting of a formaldehyde room, a septic room, a sterilizing room, and a physician's wash room, locker room, and sterile room. The first floor is divided into three separate ward units, each with a capacity of seven beds and having a nurse's room with bath, a diet kitchen, a linen closet, a bath room, and a private room for use as an observation room or for serious cases. This building is provided with all necessary sterilizing and antiseptic devices in connection with the wards, in addition to the equipment in the basement.

### Service Buildings

*The Central Heat and Power Plant* (old boiler house erected 1902; new boiler house, 1910 and 1914). The old boiler house, 55 by 120 feet, is no longer used as part of the power plant, but serves as a University garage, and a special laboratory of the College of Engineering for experiments dealing with the fatigue of metals. The new boiler house, designed to be enlarged as necessity requires, is equipped with six 500-horsepower B. & W. boilers with chain grates. A power plant containing a 250-kilowatt Allis-Chalmers direct connected steam engine and dynamo, a 125-kilowatt direct connected Westinghouse engine and generator, and a 100-kilowatt Curtiss turbo-generator, together with the accessories necessary to a complete power station, supplies current for light and power to all parts of the grounds. The pipe lines of the heating system and the circuits for distributing electricity are carried from the central plant to the several buildings through brick and concrete tunnels and clay and concrete conduits. There are now 6,568 feet of tunnels and 10,105 feet of conduit for the distribution of steam, and 48,850 duct feet of conduit for the distri-

bution of electricity. The new boiler and power plant provides temporary quarters for the electric test car of the department of railway engineering.

*The Pumping Station* of the University water-works is a brick building, 38 by 73 feet, connected with the central heating station. Four 8-inch wells, 145 feet deep, one 12-inch well 148 feet deep, and a 24-inch well 170 feet deep, supply the University with water. A masonry reservoir provides for a fire-reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work, and also to vary the working conditions in the adjacent hydraulics laboratory. In this building is kept the equipment of the University fire department, including an electric automatic hose and chemical wagon.

### BUILDINGS IN CHICAGO

*The College of Medicine Building*, in which are housed all the departments except that of anatomy, is a brick and stone structure two hundred feet long by one hundred and ten feet deep and five stories high, fronting on three streets. The building contains three lecture rooms with a seating capacity of two hundred each; a clinical amphitheater with a seating capacity of over three hundred; an assembly hall with a seating capacity of seven hundred; besides recitation rooms. It also contains laboratories for physiology, chemistry, materia medica, therapeutics, and microscopical and chemical diagnosis, each accommodating from fifty to one hundred students at a time.

A three-story annex to the main building contains the laboratories used by the departments of pathology, bacteriology, and chemistry. All of these laboratories have outside light and are furnished with work tables, desks, lockers, and the necessary apparatus. There is a supply of microscopes, lenses, and oil immersions, and a projection apparatus for the illustration of lectures by means of stereopticon views.

In addition to this building, there are under construction other buildings, which will house the following: a General Hospital, the Illinois Charitable Eye and Ear Infirmary, a Psychiatric Institute, and an Orthopedic Institute. These will be available for teaching and research purposes under the cooperative plan adopted by the State Department of Public Welfare and the University of Illinois.

*The College of Dentistry*, adjoining the College of Medicine, occupies a separate six-story building, with a frontage of one hundred feet on Harrison Street and one hundred feet on Honore Street. This building contains three amphitheaters, a clinical operating room, an infirmary, recitation rooms, the laboratories of gross anatomy and of prosthetic and operative dentistry, administrative offices, three dental depots, and four special laboratories, for research in histology and pathology, for anatomical modeling, for porcelain work, and for instructional and diagnostic work in radiography.

*The School of Pharmacy*.—In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets and comprising eight city lots with two large brick buildings, connected by a fireproof central stairway tower. The new quarters were occupied in June, 1906.

The buildings include two substantial brick structures connected at each floor by a stair-tower building. Both have daylight from four sides and electric light throughout, and are heated by steam.

The larger building is sixty by eighty feet square and four stories high. It contains the offices, the library, the museum, the microscopical laboratory, the bacteriological laboratory, an auditorium, a lecture hall, a recitation room, preparation rooms and private laboratories for the teachers, students' rooms, and locker rooms.

The smaller building is forty-four by eighty-eight feet square and three stories high. It contains the pharmaceutical laboratory, the laboratory for quantitative analysis, the laboratory for qualitative analysis, and several private laboratories for the teachers, as well as store rooms and supply rooms.

The stair-tower building, of fireproof construction, provides the students' entrance, stairways to each floor, corridors, toilets, and rooms for the hydrogen sulphide generator and distilled water supply.

## LIBRARIES

(For the Library Staff see page 33.)

The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana and also the libraries of the College of Medicine and the School of Pharmacy in Chicago.

The number of volumes, pamphlets, etc., in the several libraries on January 1, 1921, was as follows:

			<i>Pieces of</i>	
In Urbana:	<i>Volumes</i>	<i>Pamphlets</i>	<i>Maps</i>	<i>Sheet Music</i>
General and Departmental Libraries.....	444,375	51,416	2,123	5,553
In Chicago:				
College of Medicine.....	22,950	2,370	.....	.....
School of Pharmacy.....	3,858	1,250	.....	.....
Total in University Library.....	471,183	55,036	2,123	5,553
Other Libraries located at the University of Illinois in Urbana:				
State Laboratory of Natural History Library.....	10,513	54,283	94	
State Geological Survey Library.....	2,505	5,550	1,051	
Total.....	13,018	59,833	1,145	

The Library is housed, for the most part, in the Library Building, and is for the use of the whole University. The officers of instruction and administration of the University, the graduate students, and the members of the senior class have direct access to the shelves; other students may have this privilege on the recommendation of their instructors. All students have the direct use of 10,700 volumes in the reading rooms, and in addition advanced students have the use of the seminar libraries. About 4,000 periodicals are currently received.

As a part of the Library are included several special collections: The *University of Illinois collection*, including printed material illustrating the history of the University: about 300 volumes. *College Publication collection*, comprising the catalogs, announcements, reports, studies, etc., of other educational institutions: about 5,500 volumes. *Thesis collection*, a complete file of the original copies of the theses presented for graduation from the University, bound and filed by years: 2,160 volumes. The *Collection of School Reports*, a cataloged collection of school reports, courses of study, and other documents published by public school authorities throughout the United States. The *Dziatzko Collection of Library Economy*, the entire library of Karl Dziatzko, librarian of Göttingen University: 300 volumes, 250 pamphlets, bought in 1905. The *Dittenberger Collection of the Classics*, the entire library of Wilhelm Dittenberger, Professor of Classical Philology in the University of Halle: 5,600 items, bought in 1907. The *Heyne collection*, the philological library of Professor Moritz Heyne of the University of Göttingen: about 5,000 items, principally on German philology and literature, bought in 1909. The *Karsten collection*, principally on French and German philology and literature, the library of the late Professor Gustaf E. Karsten, presented by Mrs. Eleanor G. Karsten. The *Grober collection*, the entire library of the late Professor Gustav Grober, of Strasberg: 6,300 titles, principally on the Romance languages, purchased in 1912. The *Vahlen collection*, the entire classical library of the late Professor Johannes Vahlen, of Berlin: 10,000 volumes, purchased in 1913. The *Aron collection*, the pedagogical library of the late Dr. R. Aron, of Berlin: 20,000 volumes, pur-

chased in 1913. The *Carl Martin James collection*, 1,030 volumes relating to statistics and similar subjects, presented in 1915 by President Edmund J. James. The *D. C. Greene collection*, 219 volumes of books and newspapers relating to Japan, presented in 1915 by Professor E. B. Greene. The *Rattermann collection*, of German-American literature and history: 7,000 volumes, purchased in 1915. The *Amanda K. Cosad collection*, relating to history, economics, politics, and education: 1,732 volumes, presented in 1916 by President Edmund J. James. The *Constance Barlow-Smith collection*, of musical scores: manuscript books, and portraits, presented in 1916 by Mrs. Constance Barlow-Smith. The *Thomas J. Burrill* collection of general and botanical literature was presented by Mrs. Burrill in 1917.

A number of departmental and college libraries and reading rooms are maintained in various buildings on the campus; these libraries do not necessarily contain all the books in the respective subjects. In some instances they are primarily for the use of the graduate students and advanced undergraduate students in the departments using the respective buildings. The principal departmental libraries and reading rooms are the following:

<i>Name of Library</i>	<i>Location</i>	<i>Volumes</i>
Philosophy, Psychology, and Education	Lincoln Hall	15,900
Classics	Lincoln Hall	22,986
Modern Languages	Lincoln Hall	27,000
English	Lincoln Hall	16,400
History and Political Science	Lincoln Hall	20,000
Economics and Sociology	Lincoln Hall	24,000
Natural History	Natural History Building	22,377
Law	Law Building	22,000
Commerce Reading Room	Commerce Building	1,920
Architecture, Ricker Library of	Engineering Hall	4,700
Agriculture Reading Room	Agricultural Building	9,000
Chemistry	Chemistry Building	10,500
Physics	Physics Building	1,490
Mathematics	Natural History Building	5,610
Engineering	Engineering Building	8,100

*Mason Library of Western History.* The library of western history collected by Edward G. Mason, Esq., long president of the Chicago Historical Society, is in the Public Library of the city of Chicago, and is accessible to students in the University.

## MUSEUMS AND COLLECTIONS

### College of Liberal Arts and Sciences

#### *Liberal Arts Group*

*Art.*—A collection of casts, photographs, and engravings presented to the University in 1876 by citizens of the community has, for want of a suitable gallery, been placed in different buildings on the campus. Eight large statues are in the Auditorium foyer. Numerous pieces are now in the studios of the department of art and design in University Hall, and others are in the corridors and class rooms of University Hall, Lincoln Hall, Natural History Hall, and the Library. A collection of eighty-one German and Japanese prints purchased by the department of art and design from the St. Louis Exposition in 1905 is displayed in the rooms of the department of art and design.

Other collections of value to art students, consisting of a number of casts of Moorish, Spanish, and German ornament and miscellaneous casts, models, prints, and drawings, are placed in the studios and corridors of the department of art and design.

*Classical Archeology and Art.*—This museum is located in Rooms 402, 404, and 406 Lincoln Hall, and contains casts and photographs of Greek and Roman sculpture; colored reproductions of ancient painting; many objects from the finds of the Egypt Exploration Fund, received through the generosity of Mr. W. G. Hibbard, Jr., of Chicago; numerous ancient coins, thirty Greek papyri; and other originals and models of Greek and Roman antiquities. About 2,200 photographs exhibit important historic sites and archeological



remains and in addition there are available 1,900 slides belonging to the department of classics. The museum is open on Sunday, Wednesday and Saturday afternoons.

*Oriental Museum.*—This museum occupies temporary quarters in 410 Lincoln Hall. Among its collections are 1,700 unpublished cuneiform tablets, the majority from Drehem, Umma, and Larsa, dating from the twenty-ninth to the twentieth century B. C., the others from the period of Nebuchadnezzar; a collection of Babylonian seals; fragments of Assyrian and Babylonian bricks with royal inscriptions; pottery, slate palettes, mummy case fragments, mummified sacred birds, and small objects from Egypt, the gift of Mr. W. G. Hibbard, Jr., of Chicago; a collection of Egyptian alabasters; a unique collection of squeezes or paper impressions of Hittite and Assyrian inscriptions, loaned by Dr. B. B. Charles of Philadelphia; squeezes of Phoenician inscriptions; a loan collection of pottery and pottery fragments representing the survey of two hundred ancient sites in the Near East; a loan collection of objects from Palestine, including two Hebrew manuscripts, models of domestic furniture, pottery, and prehistoric implements, a large number of unpublished photographs of the Near East.

*Education.*—In Room 417, University Hall, is a collection of illustrative material from the manual training departments of various schools; photographs of school buildings; drawings and constructive work by pupils in the public schools; and the nucleus of a collection of apparatus for the school laboratory.

*European Culture.*—The Museum of European culture is in the north wing of Lincoln Hall. It contains casts of Romanesque, Gothic, and Renaissance sculpture; color reproductions of masterpieces of painting; originals and facsimiles of medieval manuscripts, early printed books, and early maps of the world; originals and reproductions of medieval arms and armor and of prehistoric and early historic antiquities; theater models and prints of theaters and actors; peasant costumes; ship models; reproductions of early church ivory carving and metal work; about 350 coins; carbon prints of cathedrals and other photographic material; reproductions of runic inscriptions, early musical instruments, and other objects. The museum is open on Sunday, Monday, Wednesday, and Friday afternoons, and Saturday mornings.

### *Science Group*

*Laboratories.*—The departmental laboratories occupy twenty rooms in University Hall. They make provision for research, undergraduate instruction in drill-courses, demonstrations in the lecture-room, the testing of mental capacity and of mental defect, and the study of the animal mind. Besides standard equipment in all branches, the laboratories contain special apparatus for spectroscopic and chronographic methods and for the investigation of memory and association. Provision is made for research in psychological optics and acoustics. The work-shop is equipped for the construction of delicate apparatus and of instruments of precision. The departmental library contains complete files of foreign and American journals and a working collection for experimental and historical study. The history of the science and of its antecedents in physiognomy, anthropology, and phrenology is further provided for in the departmental museum, which contains a large collection of casts, portraits, documents, and other objects of human and of psychological interest.

*Botany.*—The herbarium contains over 100,000 sheets of mounted specimens. It is representative of the higher plants and fungi of Champaign County and of the State, and forms a collection for the general flora of the United States. Through the acquisition of the herbaria of the late Dr. Frederick Brendel of Peoria, the late Dr. W. Welsch of Mascoutah, the late Dr. Jacob Schneck of Mount Carmel, and Professor W. E. Andrews of Pana, and the earlier gift of the large personal herbarium of Mrs. Agnes Chase, its value for students of the Illinois flora has been largely increased. Because of the interest of the late Professor Burrill and his special students, Clinton, Earle, Seymour, and others, in the study

of parasitic fungi, the part of the herbarium devoted to the representation of plants of this group is rich in material records of investigation. This group was greatly enriched by the Stevens collection of Porto Rican fungi, fourteen thousand numbers, presented by Professor F. L. Stevens in 1916. The published "exiccatae" in this group are well represented. The recent gift of her personal set of the Phycotheca Boreali-Americana by Mrs. Mary S. Snyder has increased the reference value of the herbarium for students of algae, of which it represents over 2,000 named species.

*Entomology.*—The entomology collections of the University include a reference series of 6,400 specimens, representing 1,600 common species; and the Bolter collection, given to the University by the executors of the estate of the late Andreas Bolter of Chicago, which now contains about 120,000 specimens representing over 16,000 species. The department has access, also, to the insect collections of the State Laboratory of Natural History, which contain 330,000 pinned insects and 26,000 vials and bottles of specimens in alcohol, mainly from Illinois.

*Geology.*—The department has adequate working collections which illustrate the principal phases of geology, including 10,000 hand specimens of rocks, 3,000 thin sections for microscopic study, over 12,000 minerals, and 60,000 fossils. In the corridors of the Natural History Building are exhibits of gems and precious stones, meteorites, polished ornamental stones, and specimens illustrating geologic structures, and the principal types of rocks, minerals, and fossils. The collections available for advanced students include those of Tyler McWhorter, Hertzner, and the greater part of the specimens collected both privately and for the State Geological Survey by A. H. Worthen.

*Geography.*—The geography collection consists of a complete file of the United States topographic maps; a collection of U. S. Geological Survey folios; combined contour maps representing the physiographic provinces of the United States; a collection of foreign topographic maps; rainfall and vegetation maps; relief models of all the continents and of smaller areas; and several thousand lantern slides.

*Zoology.*—The zoology collections illustrate the work in zoology and present a synoptical view of the zoology of the State. Most of them are placed in the museum room in the Natural History Building, and in adjacent corridors. The mounted mammals include a collection of the ruminants of the United States and representatives of the other orders of Mammalia except the Sirenia. The same orders are also represented by mounted skeletons. There are also a collection of mounted birds; the Barnum collection of bird's eggs; a collection of nests and eggs of Illinois birds; a series of mounted skins of larger species of cold-blooded vertebrates, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups; alcoholic specimens; and casts; alcoholic specimens of all classes and orders of Mollusca, and dissections showing the internal anatomy of typical forms; several thousand shells, belonging to more than 2,000 species. (The collection of the Illinois aquatic species is nearly complete.) Several hundred dried specimens and alcoholics, and a series of Blanschka glass models of the lower invertebrates; several sets of Ziegler wax models and series of sections and other preparations showing the embryology of vertebrates and invertebrates.

In addition to the foregoing, the collections of the State Laboratory of Natural History are available for illustrative purposes, as well as for original investigation by advanced students.

#### College of Commerce and Business Administration

*Commerce.*—For its courses in industrial economics and commerce the University has a collection of the materials of commerce; lanterns and several hundred slides; political and industrial maps; and diagrams and stereoscopic views illustrating phases of commerce

and industry. Most of the articles constituting the commercial museum are the gifts of the Philadelphia Commercial Museum and of private manufacturing and mercantile establishments.

### College of Engineering

The several departments of the College of Engineering possess collections of historic materials drawn from their respective fields of practise. The department of railway engineering maintains exhibits of track rails typifying practise since the beginning of railway construction; many details employed in car and locomotive construction, historic and modern; and an extensive collection of photographs and prints. The department of mechanical engineering is the custodian of a 600 h.p. vertical triple-expansion engine, direct connected to an electric generator, a type of machine in common use for power station service twenty years ago, and numerous machines of historical value together with a collection of exhibits of engineering apparatus. The departments of civil engineering and theoretical and applied mechanics maintain exhibits of tested specimens and structures. The department of architecture has a number of reproductions of fragments from historic architectural monuments. The mining museum has a comprehensive collection of models showing the methods of working coal and ore mines and both sectionalized and operating mining machines, and appliances. There is a collection of photographs and blue prints illustrating all phases of mining and metallurgical design and construction. Six stereoscopes with over one hundred views illustrate South African mining practise.

All such material occupies temporary locations. No especially appointed building designed for its reception has thus far been provided.

### College of Agriculture

The agricultural departments maintain collections illustrative of their work; among which are specimens of standard varieties of corn; wax models of fruit and vegetables; a horticulture herbarium; specimens of breeds of live stock; a collection of farm machinery; and exhibits of negatives and samples showing the progress of investigations with fruit, crops, and soils.

See further the description of the facilities for instruction and methods of work of the departments of agronomy, animal husbandry, dairy husbandry, and horticulture, under the College of Agriculture, in Part II.

### Library School

The School has made a collection of books and pamphlets on library science; of library reports and catalogs; of mounted samples showing methods of administration in libraries; and of books, photographs, and lantern slides illustrating library architecture and the history of books, printing, and libraries.

# ADMINISTRATION

---

## GOVERNMENT

The government of the University is vested by law primarily in a Board of Trustees, consisting of eleven members. The Governor of the State and the Superintendent of Public Instruction are members *ex officio*. The other nine members are elected by the people of the State for terms of six years; the terms of three members expire every second year.

The administration of the University is vested by the Board of Trustees in the President of the University, the Vice-President, the Senate, the Council of Administration, the Faculties of the several colleges, and the Deans of the colleges and Directors of the schools.

The President is the administrative head of the University.

The Senate is composed of the full professors and those other members of the faculty who are in charge of separate departments of the various colleges and schools. It is charged with the direction of the general educational policy of the University.

The Council of Administration is composed of the President, the Vice-President, the Dean of the Graduate School, the Deans of Men and Women, and the Deans of the several colleges. It constitutes an advisory board to the President, and has exclusive jurisdiction over all matters of discipline. The Council does not determine educational policy; but when any matter arises which has not been provided for by common usage or by rule of the Senate and cannot be conveniently laid over until the next meeting of the Senate, the Council may act on the same according to its discretion.

The Faculties of the colleges and schools of the University, composed of the members of the corps of instruction of these colleges and schools, have jurisdiction, subject to higher University authority, over all matters which pertain exclusively to these organizations.

The Dean of the Graduate School, the Deans of the several colleges, and the Directors of the schools are responsible for the carrying out of all University regulations within their respective departments.

## DEPARTMENTS AND CURRICULUMS

For the purpose of administration the University is divided into several colleges and schools. These are not educationally separate, but are interdependent and form a single unit.

The colleges and schools are as follows:

- I. The College of Liberal Arts and Sciences.
- II. The College of Commerce and Business Administration.
- III. The College of Engineering.
- IV. The College of Agriculture.
- V. The Graduate School.
- VI. The Library School.
- VII. The School of Music.
- VIII. The College of Education.
- IX. The School of Railway Engineering and Administration
- X. The College of Law.
- XI. The College of Medicine.
- XII. The College of Dentistry.
- XIII. The School of Pharmacy

*The College of Liberal Arts and Sciences* offers curriculums in:—(1) philosophy and arts, including (a) the ancient classical languages; (b) the Romance languages; (c) the Germanic languages; (d) the English language and literature, including rhetoric and public speaking; (e) comparative literature; (f) comparative philology; (g) mathematics; (h) the political and social sciences: history, economics, political science, sociology; (i) philosophical subjects; philosophy, psychology, education; (j) art and design. (2) general science, affording opportunity to specialize in (a) astronomy; (b) geology, including mineralogy and geography; (c) physics; (d) chemistry; (e) botany, including bacteriology; (f) zoology; (g) entomology; (h) physiology. By the grouping of certain subjects students in this College are also offered opportunities for specific vocational and professional training as follows: (1) journalism; (2) chemistry; (3) chemical engineering; (4) economic entomology; (5) home economics and household administration; (6) library administration; (7) law (combined course); (8) medicine (combined course); (9) engineering (combined course).

*The College of Commerce and Business Administration* offers curriculums in:—(1) general business; (2) commercial and civic secretarial service; (3) banking; (4) insurance; (5) accountancy; (6) general railway administration; (7) railway transportation; (8) commercial teaching; (9) foreign commerce; (10) industrial administration; (11) commerce and law.

*The College of Engineering* offers curriculums in:—(1) architecture; (2) architectural engineering; (3) ceramic engineering; (4) civil engineering; (5) electrical engineering; (6) mechanical engineering; (7) mining and metallurgical engineering; (8) municipal and sanitary engineering; (9) general engineering physics; (10) railway civil engineering; (11) railway electrical engineering; (12) railway mechanical engineering.

*The College of Agriculture* offers curriculums in:—(1) agronomy; (2) horticulture, floriculture, and landscape gardening; (3) animal husbandry; (4) dairy husbandry; (5) farm organization and management; (6) general home economics; (7) agricultural education and home economics education (Smith-Hughes).

*Military science and physical education* are provided in all the undergraduate colleges in Urbana.

*The Graduate School* offers courses in:—philology, including the classical languages, Romance languages, Germanic languages, and English; mathematics; political and social sciences, including history, economics, sociology, and political science; philosophy, including psychology and education; physical sciences, including physics, chemistry, astronomy, and geology; biology, including botany, zoology, entomology, physiology, and bacteriology; engineering, including architecture, architectural engineering, ceramic engineering, civil engineering, electrical engineering, mechanical engineering, mechanics, mining engineering, municipal and sanitary engineering, and railway engineering; agriculture, including agronomy, animal husbandry, dairy husbandry, genetics, horticulture and floriculture, and home economics.

*The Library School* offers to college graduates a professional curriculum of two years in preparation for librarianship, leading to the degree of Bachelor of Library Science.

*The School of Music* offers curriculums in vocal and instrumental music, leading to the degree of Bachelor of Music, and provides training in public school methods in music.

*The College of Education* offers curriculums in:—(1) teaching and school administration (two-year professional curriculum, based on two years of college work); (2) athletic coaching (four-year undergraduate curriculum); (3) industrial education—four-year curriculums for teachers of “related subjects” and for teachers of “un-vocational subjects” under the Smith-Hughes Act, and a two-year curriculum for teachers of “general continuation subjects” under the same Act; (4) curriculums in agricultural education and in home economics education, meeting the requirements for teacher-training in these branches under the Smith-Hughes Act.

*The School of Railway Engineering and Administration* offers curriculums leading to the degree of Bachelor of Science in railway civil, railway electrical, and railway mechanical engineering; and also curriculums in railway transportation and in railway administration, leading to the degree of Bachelor of Arts.

*The College of Law* offers curriculums of three years and four years leading to the degree of Bachelor of Laws.

Students holding the bachelor's degree in arts or science may become candidates in this College for the degree of Doctor of Law (J.D.).

*The College of Medicine* (Chicago) requires for admission two years of college work in liberal arts and sciences, and offers a five-year curriculum; at the end of the first two years the degree of Bachelor of Science is conferred, and at the end of five years the degree of Doctor of Medicine. (For students matriculating in the College after July 1, 1917, and graduating after June 30, 1922, the completion of a year of hospital service is required for the degree of Doctor of Medicine.)

*The College of Dentistry* (Chicago) offers a four-year curriculum leading to the degree of Doctor of Dental Surgery. Beginning January 1, 1921, the requirement for admission was changed to include one year of work in liberal arts and sciences.

*The School of Pharmacy* (Chicago) offers a curriculum of two years leading to the degree of Graduate in Pharmacy, and a curriculum of three years leading to the degree of Pharmaceutical Chemist.

*The Summer Session*, of eight weeks, offered in 1920, courses in accountancy, agriculture, art and design, botany, business organization and operation, chemistry, economics, education, English, entomology, French, German, history, home economics, industrial education, Latin, library science, mathematics, mechanics (theoretical and applied), music, philosophy, physical education for men and for women, physics, political science, psychology, public speaking, rhetoric, sociology, Spanish, transportation, and zoology.

All the courses given in the Summer Session are of collegiate grade and may be counted toward the bachelor's degree. Certain advanced courses may be counted toward the master's degree.

# ADMISSION

## GENERAL STATEMENT

An applicant for admission to any of the colleges or schools of the University must be at least sixteen years of age. Candidates for admission to the College of Dentistry (Chicago), and to the School of Pharmacy (Chicago), must be seventeen years of age.

Women are admitted to all departments under the same conditions and on the same terms as men.

Students may be admitted at any time except to the professional departments in Chicago (Medicine, Dentistry, and Pharmacy), but should enter if possible at the beginning of the fall semester (in 1921, September 19) or at the beginning of the spring semester (in 1922, February 6). Students can seldom enter the College of Engineering to advantage except at the opening of the school year in September. Candidates are received in the departments of Medicine, Dentistry, and Pharmacy only at the beginning of the first semester (during the first ten days of October).

## THE UNDERGRADUATE COLLEGES

The entrance requirements for the *undergraduate departments*, including the colleges of LIBERAL ARTS AND SCIENCES, COMMERCE AND BUSINESS ADMINISTRATION, ENGINEERING, and AGRICULTURE, the SCHOOL OF MUSIC, and the curriculums in Athletic Coaching and Industrial Education in the COLLEGE OF EDUCATION, amounting in each case to 15 units<sup>1</sup> of high-school work, are stated in detail immediately below.

A candidate for admission by *certificate* must be a *graduate* of an accredited high school or other accredited school.

An applicant *who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to 5 units<sup>1</sup>:

English composition.....	1 unit
Algebra.....	1 unit
Additional subjects to be designated by the University authorities.....	3 units
Total.....	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

## Number of Units Required

Fifteen units<sup>1</sup> of high-school or other secondary-school work, in acceptable subjects (see Lists A, B, and C below), must be offered by every candidate. (But see "Admission on Probation on Principal's Recommendation," p. 73.)

## Deficiencies

*No quantitative conditions are permitted.* In other words, every student must offer at the time of admission 15 units in acceptable subjects. These must include the 6 units specifically prescribed for all the undergraduate colleges (see List A below). It is provided, however, that a student who offers 15 acceptable units including the 6 units of List A, but is

<sup>1</sup>A unit is the amount of work represented by the pursuit of one preparatory subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practise.

deficient not to exceed 2 units in subjects prescribed only for the college or curriculum which he wishes to enter (see below), may be admitted in that college or curriculum to courses for which he is fully prepared, subject to the requirement that the deficiencies in question shall be removed before he may register for a second year's work.

A student with deficiencies is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$25.00 a semester.

## Prescribed Subjects

### Summary

The 15 units<sup>1</sup> offered for admission must include:

I. Certain subjects <i>prescribed alike for all curriculums</i> (see List A below).....	6 units
II. Certain subjects <i>prescribed in addition for the individual curriculum</i> which the student wishes to enter.....	0 to 4 units
III. Enough <i>electives from List B</i> (below) to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units.....	6 to 2 units
IV. <i>Three additional units</i> , which may be chosen either from List B or from the additional electives of List C (below).....	3 units
Total.....	15 units

### Detailed Statement

#### I. Units Prescribed for All Curriculums

Of the 15 units required, the following 6 units, constituting List A, are *prescribed* for admission to the freshman class in *all* the undergraduate curriculums of the University, and no substitutes are accepted:

#### LIST A

English (composition and literature).....	3 units
Algebra <sup>2</sup> .....	1 unit
Plane geometry.....	1 unit
Physics, or chemistry, or botany, or zoology, or physiology, or physiography, with laboratory work.....	1 unit
Total.....	6 units

#### II. Additional Prescriptions for Individual Curriculums

Of the 9 units that remain, certain others are *prescribed* for admission to *individual curriculums*, and in each case no substitutes are accepted for the curriculums in question. These additional prescriptions are as follows:

- For the *General Curriculum*, the *Curriculum in Journalism*, and the *Pre-Legal Curriculum*, in the *College of Liberal Arts and Sciences*—  
Latin, Greek, French, German, or Spanish (both units in the same language)..... 2 units
- For the curriculums in *Household Administration*<sup>2</sup> and for *Home Economics Teachers*<sup>2</sup>, in the *College of Liberal Arts and Sciences* (see also paragraph 9)—  
Latin, Greek, French, German, or Spanish (both units in the same language)..... 2 units  
Physics (if not offered for List A)..... 1 unit
- For the *Pre-Medical Curriculum*<sup>2</sup>, in the *College of Liberal Arts and Sciences*—  
Latin, Greek, French, or German (both units in the same language)..... 2 units  
History and civics..... 1 unit
- For the curriculums in *Chemistry* and *Chemical Engineering*, in the *College of Liberal Arts and Sciences*—  
German or French (both units in the same language)..... 2 units  
Chemistry (in addition to another unit of laboratory science for List A)..... 1 unit  
Advanced algebra.....  $\frac{1}{2}$  unit
- For the *College of Commerce and Business Administration*<sup>2</sup>—  
(a) Latin, Greek, French, German, or Spanish (both units in the same language)..... 2 units  
OR  
(b)  $\left\{ \begin{array}{l} \text{Advanced algebra}..... \\ \text{and} \\ \text{Solid and spherical geometry}..... \end{array} \right. \frac{1}{2} \text{ unit}$   
OR  
(c) Science (in addition to the unit for List A). .... 1 unit

<sup>1</sup>See footnote 1, page 69.

<sup>2</sup>It is desirable that students who intend to pursue curriculums involving college mathematics, physics, or advanced chemistry, including the curriculums in home economics, the pre-medical curriculum, and the curriculums in commerce and business administration in which university courses in mathematics are prescribed should present for admission *one-half unit of advanced algebra* in addition to the required unit of List A.



- 6 For the curriculums in *Athletic Coaching* and *Vocational Education*, in the *College of Education*—  
No special prescriptions; but candidates for the curriculum in *Athletic Coaching* must pass physical and medical examinations.
7. For the *College of Engineering*—  
Advanced algebra.....  $\frac{1}{2}$  unit  
Solid and spherical geometry.....  $\frac{1}{2}$  unit
8. For the *College of Agriculture*, for the agricultural curriculums—  
Science (in addition to the unit for List A)..... 1 unit
9. For the *College of Agriculture*, for the *Curriculum in Home Economics*<sup>1</sup> (see also paragraph 2)—  
Physics (in addition to another unit of laboratory science for List A)..... 1 unit
10. For the *School of Music*—  
Latin, Greek, French, German, or Spanish (both units in the same language) . . 2 units  
Music..... 2 units

### III. Electives from List B

Enough electives must be chosen from List B below to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units.

LIST B		Units
Latin.....	36 to 144 weeks	1-3
Greek.....	36 to 108 weeks	1-3
French.....	36 to 144 weeks	1-4
German.....	36 to 144 weeks	1-4
Spanish.....	36 to 144 weeks	1-4
Italian <sup>1</sup> .....	36 to 72 weeks	1-2
Norwegian <sup>2</sup> .....	36 to 72 weeks	1-2
Swedish <sup>2</sup> .....	36 to 72 weeks	1-2
Polish <sup>2</sup> .....	36 to 72 weeks	1-2
English (4th unit).....	36 weeks	1
Advanced algebra <sup>1</sup> .....	18 or 36 weeks	$\frac{1}{2}$ -1
Solid geometry.....	18 weeks	$\frac{1}{2}$
Trigonometry.....	18 weeks	$\frac{1}{2}$
History <sup>3</sup> .....	36 to 144 weeks	1-4
Civics.....	18 or 36 weeks	$\frac{1}{2}$ -1
Economics and economic history.....	18 or 36 weeks	$\frac{1}{2}$ -1
Commercial geography.....	18 or 36 weeks	$\frac{1}{2}$ -1
Astronomy.....	18 weeks	$\frac{1}{2}$
Geology.....	18 or 36 weeks	$\frac{1}{2}$ -1
Physiography.....	18 or 36 weeks	$\frac{1}{2}$ -1
Physiology.....	18 or 36 weeks	$\frac{1}{2}$ -1
Zoology.....	18 or 36 weeks	$\frac{1}{2}$ -1
Botany.....	18 or 36 weeks	$\frac{1}{2}$ -1
Physics.....	36 to 72 weeks	1-2
Chemistry.....	36 to 72 weeks	1-2
General science.....	18 to 36 weeks	$\frac{1}{2}$ -1

### IV. Additional Electives: List C

The remaining 3 units may be chosen either from List B above or from List C:

LIST C <sup>4</sup>		Units
Agriculture.....	36 to 108 weeks	1-3
Bookkeeping.....	36 weeks	1
Business law.....	18 weeks	$\frac{1}{2}$
Commercial arithmetic <sup>5</sup> .....	18 weeks	$\frac{1}{2}$
Domestic science.....	36 to 72 weeks	1-2
Drawing, art and design.....	18 or 36 weeks	$\frac{1}{2}$ -1
Drawing, mechanical.....	18 or 36 weeks	$\frac{1}{2}$ -1
Manual training <sup>6</sup> .....	36 to 72 weeks	1-2
Music.....	36 to 72 weeks	1-2
Shorthand and typewriting <sup>7</sup> .....	36 to 72 weeks	1-2

<sup>1</sup>See footnote 2, page 70.

<sup>2</sup>Not accepted in satisfaction of the foreign-language prescription for the colleges of Liberal Arts and Sciences, Commerce and Business Administration, and Medicine, or of the School of Music, but only as an elective.

<sup>3</sup>Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history,  $\frac{1}{2}$  or 1 unit; American history,  $\frac{1}{2}$  or 1 unit.

<sup>4</sup>The subjects named in List C must be taught in accordance with specifications which are set forth in the High School Manual. Further information may be had on application to the High School Visitor.

<sup>5</sup>Accepted only when taken after algebra and plane geometry.

<sup>6</sup>In giving credit for manual training the University specifies that the work is to be done by competent teachers, as determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

<sup>7</sup>These two subjects must be offered together; no credit is given for either one offered separately.

## Summary by Colleges and Curriculums

The requirements stated above may be summarized by colleges and curriculums as follows:

(1) For the *General Curriculum*, the *Curriculum in Journalism*, and the *Pre-Legal Curriculum*, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescription for these curriculums—	
Latin, Greek, French, German, or Spanish (both units in the same language) . . .	2 units
III. Electives from List B.....	4 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

(2) For the curriculums in *Household Administration*<sup>1</sup> and for *Home-Economics Teachers*<sup>1</sup>, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for these curriculums—	
Latin, Greek, French, German, or Spanish (both units in the same language) . . .	2 units
Physics (if not offered for List A).....	1 unit
III. Electives from List B.....	3 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

(3) For the *Pre-Medical Curriculum*<sup>1</sup>, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this curriculum—	
Latin, Greek, French, or German (both units in the same language) . . . . .	2 units
History and civics.....	1 unit
III. Electives from List B.....	3 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

(4) For the curriculums in *Chemistry* and *Chemical Engineering*, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for these curriculums—	
German or French (both units in the same language).....	2 units
Chemistry (in addition to another unit of laboratory science for List A).....	1 unit
Advanced algebra.....	$\frac{1}{2}$ unit
III. Electives from List B.....	$\frac{1}{2}$ units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

(5) For the COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION<sup>1</sup>—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this College—	
Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
OR	
Advanced algebra and solid and spherical geometry.....	1 unit
OR	
Science (in addition to the unit for List A).....	1 unit
III. Electives from List B.....	4 or 5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

(6) For the curriculums in *Athletic Coaching*<sup>2</sup> and *Industrial Education*, in the COLLEGE OF EDUCATION—

I. List A (prescribed for all curriculums).....	6 units
II. Electives for List B.....	6 units
III. Electives from either List B or List C.....	3 units
Total.....	15 units

<sup>1</sup>See foot-note 2, page 70.

Candidates for the curriculum in Athletic Coaching must pass physical and medical examinations.

## (7) For the COLLEGE OF ENGINEERING—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this College—	
Advanced algebra.....	$\frac{1}{2}$ unit
Solid and spherical geometry.....	$\frac{1}{2}$ unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

## (8) For the COLLEGE OF AGRICULTURE, for the agricultural curriculums—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescription for these curriculums—	
Science (in addition to the unit for List A).....	1 unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

(9) For the COLLEGE OF AGRICULTURE, for the *Curriculum in Home Economics*<sup>1</sup>—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescription for this curriculum—	
Physics (in addition to another unit of laboratory science for List A).....	1 unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

## (10) For the SCHOOL OF MUSIC—

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this School—	
Latin, Greek, French, German, or Spanish (both units in the same language)...	2 units
Music.....	2 units
III. Electives from List B.....	2 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

## Admission on Probation on Principal's Recommendation

A student who has been graduated from an accredited school, whose high-school course includes fifteen units, six of which are made up from List A, but whose high-school credits do not completely meet the requirements with respect to the selection of electives from Lists B and C, may be admitted to the University *on trial* for one semester on the *special recommendation of his high-school principal*; with the proviso that he shall be dropped automatically at the end of the first semester if he fails in more than one-third of his work; and that if his grades in more than one-fourth of his work are below C he *may* be dropped on the recommendation of his college faculty. Such a student during his trial period is not permitted to take part in any public exhibition, or serve on the staff of any student publication, or hold or become a candidate for any undergraduate office.

## Admission as Special Students

Persons over twenty-one years of age may be admitted as special students in the undergraduate colleges, provided they secure (1) the recommendation of the instructor whose work they wish to take, and (2) the approval of the dean of the college concerned. They must give evidence that they possess the requisite information and ability to pursue profitably, as special students, their chosen subjects, and must meet the special requirements of the particular college in which they wish to enroll, as stated below.

A special student is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$25.00 a semester.

No one may enroll as a special student in any school or college of the University *for more than two years*, except by special permission, application for which must be made through the dean of the college.

<sup>1</sup>See footnote 2, page 70.

A person registered as a special student in one college and desiring to take a course in another college of the University must obtain the approval of the dean of the latter college.

### Special Requirements of the Colleges and Schools

*The College of Liberal Arts and Sciences* requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory work, and showing honorable dismissal from the school last attended. In order that action may be taken on such applications before registration they should be presented at least one week before the beginning of the semester.

*The College of Engineering* requires that applicants for admission as special students shall satisfy the entrance requirements in mathematics and English (one and one-half years of algebra, one year of plane geometry, one-half year of solid geometry, one year of English composition, and two years of English literature).

*The College of Agriculture* will receive non-matriculants twenty-one years old or over, provided that if deficient in English as measured by the requirements for matriculation, they shall arrange to carry English as one subject until that deficiency is made good; and provided further, in the case of men, that they shall have at least two years of experience in practical agriculture.

### Sources of Acceptable Credits

The credits required for admission to the undergraduate departments, as detailed above, may be secured:

- (a) By *examination*.
- (b) By *certificate* from an accredited high school or other secondary school.
- (c) By *transfer* from another university or college of recognized standing.

### (A) Admission by Examination

#### I. *The University Entrance Examinations*

The University entrance examinations are given at the University in Urbana (in Room 100, Commerce Building) three times in each year: in September, immediately before the opening of the fall semester; in January and February, shortly before the opening of the spring semester; and in July, during the Summer Session. Similar examinations are given in Chicago five times in each year, about March 15, June 15, August 25, September 25, and December 15.

These examinations cover all the subjects required or accepted for admission, as outlined in the "Description of Subjects Accepted for Admission" on page 83.

Programs of these various sets of examinations may be obtained by addressing the Registrar.

#### II. *The Examinations of the College Entrance Examination Board*

The certificate of the College Entrance Examination Board, showing a grade of 60 per cent or higher, will be accepted for admission in any subject in the lists on pages 70 and 71 in the amounts there specified as being acceptable. These examinations will be held during the week of June 20-25, 1921.

All applications for examination must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board on application.

Applications for examination at points in the United States east of the Mississippi River, and at points on the Mississippi River, must be received by the Secretary of the Board at least three weeks in advance of the examinations, that is, on or before Monday,

May 30, 1921; applications for examination at points in the United States west of the Mississippi River or in Canada must be received at least four weeks in advance of the examinations, that is, on or before Monday, May 23, 1921; and applications for examinations outside of the United States or Canada must be received at least six weeks in advance of the examinations, that is, on or before Monday, May 9, 1921.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidate concerned, but only on payment of \$6.00 in addition to the usual fee.

The examination fee is \$6.00 for all candidates examined at points in the United States or Canada, and \$20.00 for all candidates examined outside of the United States and Canada. The fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board and should accompany the application.

A list of the places at which examinations are to be held by the Board in June, 1921, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

### *III. The New York Regents' Examinations*

Credits will be accepted, also, from the examinations conducted by the Regents of the University of the State of New York.

#### **(B) Admission by Certificate from an Accredited Preparatory School**

Blank certificates for students wishing to enter the University by *certificate* from an accredited high school or academy may be had of the Registrar. They should be obtained early and should be filled out and sent to the Registrar for approval as soon as possible after the close of the high-school year in June. Certificates received at the University after September 16 (in 1921) will be held until the arrival of the student unless such certificates are accompanied by an addressed envelope with a special delivery stamp.

#### *Accredited Schools*

The High-School Visitor of the University visits and inspects, on request, high schools and other preparatory schools throughout the State. On the basis of his reports, approved by the Committee on Accredited Schools and by the Council of Administration, the University accredits all work which is found to be sufficiently well done. For a list of accredited schools, see page 79. Not all the schools named in this list, however, are accredited for the same amount of work nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the school is specifically accredited as shown in the certificate of its accredited relation issued to the school by the University.*

Entrance credits will also be accepted on certificate from the following sources:

1. From schools accredited by the North Central Association of Colleges and Secondary Schools.
2. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
3. From schools accredited by the Southern Association of Colleges and Secondary Schools.
4. From schools approved by the New England College Entrance Certificate Board.
5. From high schools and academies registered by the Regents of the University of the State of New York.
6. From the state normal schools of Illinois and other state normal schools having equal requirements for graduation.

*Foreign Students*

Candidates for admission who come from foreign countries should bring complete official credentials. Certificates from Oriental and Slavic countries must be accompanied by certified translations. Upon arriving at the University foreign students should consult with the Assistant Dean of Foreign Students, Room 153, Administration Building.

*No-Credit Course in Rhetoric for Deficient Students*

Early in the first semester the Department of English determines by a series of tests, including the writing of several compositions, the grade of each student's preparation to pursue the freshman work in rhetoric, and places those students who are found to be insufficiently prepared in a special course for which no credit is given.

**(C) Admission by Transfer of Entrance Credits from  
Other Colleges or Universities**

A person who has been admitted to another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institution, provided it appears that the subjects are those required here for admission by examination or real equivalents. No substitutes will be accepted for the subjects *prescribed* for all colleges or for individual colleges as indicated above (pages 70-73); except that a student who comes from a college or university rated in Class A by the Committee on Admissions from Higher Institutions, with a record of thirty hours without failures or conditions and with an average grade ten per cent above the passing grade of the college, may be matriculated irrespective of deficiencies in prescribed subjects.

**Admission to Advanced Standing**

After matriculation, an applicant may secure advanced standing either by examination or by transfer of credits.

1. *By examination*—Advanced standing is granted only by examination unless the applicant is from an approved school. Examinations for advanced standing are given without fee if taken within 60 days after matriculation; if taken later, a fee of \$5.00 is charged for each examination.

2. *By transfer of credits*—Credits may be accepted for advanced standing from another university or a college or a junior college of recognized standing or from a state normal school. An applicant for advanced standing by transfer must present a certified record of work done in the institution from which he comes, accompanied by a summary of their preparatory work and by a letter of honorable dismissal. Students intending to transfer to the University of Illinois should send their credentials to the Registrar as early in the summer as possible.

**THE PROFESSIONAL SCHOOLS****The College of Education**

For admission to the *two-year professional curriculums* in the COLLEGE OF EDUCATION, leading to the degree of Bachelor of Science in education, a candidate must be able to matriculate in one of the undergraduate colleges and must offer in addition *60 semester hours* of college credit (exclusive of military science).

(For the requirements for the undergraduate curriculums in Athletic Coaching and Industrial Education in this College, see above.)

### The College of Law

For admission to the *three-year curriculum* in the COLLEGE OF LAW as a regular student an applicant must be matriculated and have 60 hours' credit in a college of this University; or have completed two full years of work as given at another college or university of recognized standing, as a matriculated student in such college or university; or have received by transfer 60 hours of university credit here.

Students from other institutions who may fall short of this requirement by not over five hours of credit, by transfer, may be admitted to the three-year curriculum as conditioned students; such conditions to be made up before the beginning of the student's second year in the College.

For admission to the *four-year curriculum* as a regular student, an applicant must be matriculated and have 30 hours' credit in a college of this University, or its equivalent from another college or university of recognized standing. No conditions are permitted for admission to the four-year curriculum.

A student who is twenty-one years of age and is entitled to admission as a regular student to the freshman class of another college of this University may be admitted as a *special student* in the College of Law. If he attains in the courses of the first year an average grade of C or over, he will be admitted to regular standing, and he may receive the degree of Bachelor of Laws if in all the courses he presents for the degree his average grade is C or more.

### The Library School

Admission to the LIBRARY SCHOOL is conditioned on the presentation of credentials showing that the applicant holds a bachelor's degree in arts or science from the University of Illinois or has had other equivalent training. No entrance examinations are required.

Application blanks for admission may be secured from the Director of the School, and these, filled out, should be filed, together with such documentary material as the candidate may offer, showing qualifications for admission, generally not later than August 1. It is to the candidate's interest to present his application and certificates early, in order that the question of admission may be settled before he comes to Urbana.

For admission as a *special student* to the Library School a written application is required, accompanied by official certificates, indicating the character and extent of the applicant's preparatory and college work. In order that action may be taken on such applications before registration day, they should generally be presented not later than July 1. It is the practise of this School to admit as *special students* only those persons who, tho unable to meet the formal requirements for entrance, are substantially prepared for thoro and advanced work. Such persons must present evidence of possessing the requisite information and ability to pursue the chosen subjects profitably, and some substitute for the lacking requirements for entrance, such as approved library or teaching experience or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the curriculum prescribed for those who are candidates for the degree of Bachelor of Library Science, or failing that, as much of the prescribed work as they are prepared for.

### The College of Medicine (Chicago)

For admission to the COLLEGE OF MEDICINE, candidates must present:

1. Four years' work in an accredited high school or the equivalent, comprising not less than 15 units in acceptable subjects, including prescribed subjects as follows:

English.....	3 units
Algebra.....	1 unit
Plane geometry.....	1 unit
Latin, Greek, German, or French (both units in the same language).....	2 units
History and civics.....	1 unit
Electives.....	7 units
<b>Total.....</b>	<b>15 units</b>

2. Two years' work in a recognized college or university, comprising not less than 60 semester hours, and including prescribed subjects as follows:

Chemistry.....	12 semester hours
Physics (see Note 1).....	8 semester hours
Biology (see Note 2).....	8 semester hours
English (see Note 3).....	6 semester hours
German, French, Spanish, or Italian (see Note 4).....	6 semester hours
Electives outside of the chemical, physical, and biological sciences (see Note 5).....	6 semester hours
Free electives (see Note 5).....	14 semester hours
Total.....	60 semester hours

*Note 1: Physics.*—At least 2 of these 8 semester hours must consist of laboratory work.

*Note 2: Biology.*—Four of these 8 semester hours must consist of laboratory work. This requirement may be satisfied by a course of 8 semester hours in either general biology or zoology, or by courses of 4 semester hours each in zoology and botany, but not by botany alone.

*Note 3: English.*—The usual introductory college course of 6 semester hours in English composition and literature is intended.

*Note 4: German, French, Spanish, or Italian.*—German or French is preferred. The student is strongly urged to secure a reading knowledge of one of these languages. This will ordinarily require at least two years' work in the high school followed by at least 6 hours' work in the same language in college, or two years' work (at least 12 hours) in college if the language was not begun in the high school, or the equivalent.

*Note 5: Electives.*—As desirable electives the following subjects are suggested: psychology; college algebra and trigonometry; additional English; economics, history, sociology, political science; logic; Latin, Greek; drawing. Among the free electives advanced chemistry, zoology, and botany may be offered.

*No conditions are permitted.* Candidates for admission who in June, 1921, will have completed the above requirements except for a few hours in collegiate subjects should plan to make up these deficiencies in full by attendance at summer sessions during the summer of 1921.

### The College of Dentistry (Chicago)

(*New Requirements Effective January 1, 1921*)

For admission to the COLLEGE OF DENTISTRY beginning January 1, 1921, candidates must present:

1. Four years' work in an accredited high school or the equivalent, comprising not less than 15 units in acceptable subjects, including prescribed subjects as follows:

English.....	3 units
Algebra.....	1 unit
Plane geometry.....	1 unit
Physics (with laboratory work).....	1 unit
Electives from List B (see page 71).....	6 units
Electives from either List B or List C (see page 71).....	3 units
Total.....	15 units

A student who is a graduate of an accredited high school with 15 units in acceptable subjects, including 3 in English, 1 in algebra, 1 in plane geometry, and 1 in *laboratory science other than physics*, may be admitted with a deficiency of one unit in physics. Such a student must remove his deficiency before he may register for his second year in the College of Dentistry.

2. One year of work in an approved college of liberal arts and sciences, comprising not less than 30 semester hours, and including prescribed subjects as follows:

Chemistry.....	6 semester hours
Biology.....	6 semester hours
English.....	6 semester hours
Electives.....	12 semester hours
Total.....	30 semester hours

Under the requirements in force prior to January 1, 1921, applicants were admitted to the College of Dentistry on the basis of high-school work as outlined in paragraph (1) above.



### The School of Pharmacy (Chicago)

The requirements for the SCHOOL OF PHARMACY are the same as those for the undergraduate colleges at Urbana with respect to *high-school graduation*, the *number of units required*, the *acceptable subjects*, and the *prescribed subjects of List A* (see pages 70 and 71 above).

The required fifteen units may be summarized as follows:

I. Prescribed subjects (List A)—	
English (composition and literature).....	3 units
Algebra.....	1 unit
Plane geometry.....	1 unit
Physics, or chemistry, or botany, or zoology, or physiology, or physiography, with laboratory work.....	1 unit
II. Electives from List B (see page 71).....	6 units
III. Electives from either List B or List C (see page 71).....	3 units
Total.....	15 units

### THE GRADUATE SCHOOL

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. Such candidacy is determined by the Faculty after the student has demonstrated by his work here, for from two to five months, that he has the ability to do major work of graduate character. A mere accumulation of "credits" or "grades" is not sufficient.*

A graduate of an institution meeting the requirements of a standard college (see p. 172) may be admitted to the Graduate School, provided he satisfies the Dean and the departments concerned that he will be able to proceed to the master's degree in a period not exceeding two years.

### LIST OF ACCREDITED SCHOOLS

(Correct to January 1, 1921)

The following high schools, having all the *prescribed* units, and enough others to make up the *required total* of 15 units, are in the list of fully accredited schools.

Not all of these schools, however, are accredited for the same amount of work, nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the school is specifically accredited, as shown in the certificate of its accredited relation issued by the University.*

The High-School Visitor of the University, on request, inspects high schools not previously accredited, if the request is accompanied by a report of the school which shows that it merits such inspection. The University accredits all work which is thus found to be sufficiently well done. For further particulars address THE HIGH-SCHOOL VISITOR, in care of the University of Illinois.

### FULLY ACCREDITED SCHOOLS

ABINGDON	ALTONA (Walnut Grove Tp.)
HIGH SCHOOL	ALVIN (Ross Tp.)
HEDDING COL. ACAD.	ANNA (Anna-Jonesboro Community)
ACADEMY OF OUR LADY (Chicago)	ANTIOCH TP.
ACADEMY OF OUR LADY (Peoria)	ARCOLA TP.
ACADEMY OF SACRED HEART (Lake Forest)	ARGENTA TP.
ALBION COMMUNITY	ARLINGTON HEIGHTS TP.
ALEDO	ARMINGTON (Hittle Tp.)
ALEXIS COMMUNITY	ARMSTRONG TP.
ALTAMONT	ARTHUR TP.
ALTON	ASHLEY TP.
ROOSEVELT HIGH SCHOOL	ASHTON
URSULINE ACADEMY	ASSUMPTION TP.
WESTERN MIL. ACAD.	ASTORIA

- ATHENS COMMUNITY  
 ATLANTA COMMUNITY  
 ATWOOD TP.  
 AUBURN TP.  
 AUGUSTA COMMUNITY  
 AUGUSTANA COLLEGE ACADEMY (*Rock Island*)  
 AURORA  
   EAST HIGH SCHOOL  
   WEST HIGH SCHOOL  
   JENNINGS SEMINARY  
 AUSTIN HIGH SCHOOL (*Chicago*)  
 AVERYVILLE HIGH SCHOOL (*Peoria*)  
 AVON COMMUNITY  
 BARRINGTON  
 BARRY COMMUNITY  
 BATAVIA  
 BEARDSTOWN  
 BEAVERVILLE (*Holy Family Academy*)  
 BELLEVILLE TP.  
 BELLEFLOWER TP.  
 BELVIDERE  
 BEMENT TP.  
 BENLD TP.  
 BENTON TP.  
 BETHANY TP.  
 BIGGSVILLE TP.  
 BISMARCK TP.  
 BLACKBURN COL. ACADEMY (*Carlinville*)  
 BLOOMINGTON  
   HIGH SCHOOL  
   ST. JOSEPH'S ACADEMY  
   ST. MARY'S HIGH SCHOOL  
 BLOOM TP. (*Chicago Heights*)  
 BLUE ISLAND DISTRICT  
 BLUE MOUND COMMUNITY  
 BLUFFS COMMUNITY  
 BOONE-McHENRY COMMUNITY (*Capron*)  
 BOURBONAIS  
   NOTRE DAME CONVENT  
   ST. VIATOR COLLEGE ACADEMY  
 BOWEN COMMUNITY  
 BOWEN HIGH SCHOOL (*Chicago*)  
 BRADLEY POLY. INST. (*Peoria*)  
 BRIDGEPORT TP.  
 BUCKLEY COMMUNITY  
 BUDA TP.  
 BUSHNELL  
 BYRON  
 CAIRO  
   HIGH SCHOOL  
   ST. JOSEPH'S HIGH SCHOOL  
   SUMNER HIGH SCHOOL  
 CALUMET HIGH SCHOOL (*Chicago*)  
 CAMBRIDGE  
 CAMP POINT COMMUNITY  
 CANTON  
 CAPRON  
   BOONE-McHENRY COMMUNITY  
 CARBONDALE  
   SO. ILL. NORMAL UNIV. H. I.  
 CARLINVILLE COMMUNITY  
   BLACKBURN COL. ACADEMY  
 CARL SCHURZ HIGH SCHOOL (*Chicago*)  
 CARLYLE  
 CARMi TP.  
 CARROLLTON  
 CARTERVILLE COMMUNITY  
 CARTHAGE  
   HIGH SCHOOL  
   CARTHAGE COL. ACAD.  
 CASEY TP.  
 CATLIN TP.  
 CENTRAL HIGH SCHOOL (*Peoria*)  
 CENTRALIA TP.  
 CHAMPAIGN  
   HIGH SCHOOL  
   ST. MARY'S HIGH SCHOOL  
 CHANDLERVILLE COMMUNITY  
 CHARLESTON  
   HIGH SCHOOL  
   E. I. S. N. H. S. SECTION  
 CHATSWORTH TP.  
 CHEBANSE TP.  
 CHENOA COMMUNITY  
 CHESTER  
 CHICAGO
- AUSTIN  
 BOWEN  
 CALUMET  
 CARL SCHURZ  
 CRANE R. T. (TECH.)  
 ENGLEWOOD  
 FENGER  
 HARRISON TECH.  
 HYDE PARK  
 LAKE VIEW  
 LANE TECH.  
 LINDBLOM  
 LUCY FLOWER TECH.  
 MCKINLEY  
 MARSHALL  
 MEDILL  
 MORGAN PARK  
 PARKER  
 PHILLIPS  
 SENN  
 TILDEN  
 TULEY  
 WALLER  
 CHICAGO PRIVATE SCHOOLS  
   ACADEMY OF OUR LADY  
   DEPAUL UNIVERSITY ACADEMY  
   FAULKNER SCHOOL FOR GIRLS  
   F. W. PARKER SCHOOL  
   HARVARD SCHOOL FOR BOYS  
   JOSEPHINUM ACADEMY  
   KENWOOD INSTITUTE  
   LATIN SCHOOL  
   LORETTO ACADEMY  
   LOYOLA ACADEMY  
   LUTHER INSTITUTE  
   MISS SPAIDS' SCHOOL  
   MORGAN PARK MILITARY ACADEMY  
   NORTH PARK COLLEGE ACADEMY  
   OUR LADY OF PROVIDENCE ACADEMY  
   PULLMAN FREE SCHOOL OF MAN. TRAINING  
   ST. CYRIL ACADEMY  
   ST. FRANCIS XAVIER ACADEMY  
   ST. IGNATIUS ACADEMY  
   ST. LOUIS ACADEMY  
   ST. MARY'S HIGH SCHOOL  
   ST. RITA COLLEGE ACADEMY  
   ST. STANISLAUS COLLEGE ACADEMY  
   ST. THOMAS THE APOSTLE  
   STARRETT SCHOOL FOR GIRLS  
   UNIVERSITY HIGH SCHOOL  
   UNIVERSITY SCHOOL FOR GIRLS  
   VISITATION HIGH SCHOOL  
   Y. M. C. A. DAY SCHOOL  
 CHICAGO HEIGHTS (*Bloom Tp.*)  
 CHILLICOTHE TP.  
 CHRISMAN TP.  
 CICERO  
   J. STERLING MORTON TP.  
 CLAYTON  
 CLINTON COMMUNITY  
 COAL CITY TP.  
 COLFAX COMMUNITY  
 COLLINSVILLE TP.  
 CRANE, R. T. (TECH.) H. S. (*Chicago*)  
 CRYSTAL LAKE COMMUNITY  
 CUBA COMMUNITY  
 DALLAS CITY  
 DANVILLE  
 DECATUR  
   ST. TERESA ACADEMY  
 DEERFIELD TOWNSHIP HIGH SCHOOL  
   (*Highland Park*)  
 DEKALE TP.  
 DELAVAN COMMUNITY  
 DEPAUL UNIVERSITY ACADEMY (*Chicago*)  
 DEPUÉ  
 DES PLAINES (*Maine Tp.*)  
 DIVERNON TP.  
 DIXON  
 DONOVAN TP.  
 DONOVAN MEMORIAL (*Rantoul*)  
 DOWNER'S GROVE  
 DRUMMER TP. (*Gibson City*)  
 DUNDEE  
 DUQUOIN TP.  
 DURAND

DWIGHT TP.  
 EARLVILLE  
 EAST ALTON  
     WOOD RIVER COM. (*Wood River*)  
 EAST DUBUQUE  
 EAST HIGH SCHOOL (*Aurora*)  
 EAST LYNN TP.  
 EAST MOLINE TP.  
 EAST ST. LOUIS  
     HIGH SCHOOL  
     LINCOLN HIGH SCHOOL  
     ST. TERESA'S ACADEMY  
 EDWARDSVILLE  
 EDUCATIONAL INST. H.S. (*Moosheart*)  
 EFFINGHAM  
 E. I. S. N. H. S. SECTION (*Charleston*)  
 ELDORADO TP.  
 ELGIN  
     HIGH SCHOOL  
     ELGIN JR. COLLEGE AND ACADEMY  
 ELMHURST  
     ACADEMY AND JUNIOR COLLEGE  
     HIGH SCHOOL  
 ELMWOOD TP.  
 ELPASO TP.  
 ENGLEWOOD (*Chicago*)  
 EQUALITY TP.  
 ERIE COMMUNITY  
 EUREKA TP.  
 EVANSTON TP.  
 EVANSTON (*Marywood School*)  
 FAIRBURY TP.  
 FAIRFIELD COMMUNITY  
 FARINA  
 FARMER CITY (*Moore Tp.*)  
 FARMINGTON COMMUNITY  
 FENGER HIGH SCHOOL (*Chicago*)  
 FERRY HALL (*Lake Forest*)  
 FISHER COMMUNITY  
 FLORA (*Harter-Stanford Tp.*)  
 FORREST TP.  
 FRANCES SHIMER SCHOOL (*Mt. Carroll*)  
 FRANKLIN GROVE  
 FREEPORT  
 FULTON  
 GALENA  
 GALESBURG  
 GALVA  
 GARDNER TP.  
 GENESEO TP.  
 GENEVA  
 GENOA TP.  
 GEORGETOWN TP.  
 GIBSON CITY (*Drummer Tp.*)  
 GILMAN COMMUNITY  
 GIRARD TP.  
 GLEN ELLYN TP.  
 GODFREY (*Monticello Seminary*)  
 GOLCONDA  
 GOLDEN COMMUNITY  
 GRAND PRAIRIE SEMINARY (*Onarga*)  
 GRANITE CITY  
 GRANVILLE (*Hopkins Tp.*)  
 GRAYVILLE COMMUNITY  
 GREENFIELD COMMUNITY  
 GREEN VALLEY COMMUNITY  
 GREENVIEW  
 GREENVILLE  
 GRIGGSVILLE COMMUNITY  
 GARNER (*Warren Tp.*)  
 HALL TP. (*Spring Valley*)  
 HAMILTON  
 HAMPSHIRE TP.  
 HARRISBURG TP.  
 HARRISON TECHNICAL HIGH SCHOOL (*Chicago*)  
 HARTER-STANFORD TP. (*Flora*)  
 HARVARD COMMUNITY  
 HARVARD SCHOOL (*Chicago*)  
 HARVEY (*Thornton Tp.*)  
 HAVANA COMMUNITY  
 HEBRON COMMUNITY  
 HEDDING COLLEGE ACADEMY (*Abingdon*)  
 HENNING COMMUNITY  
 HENRY TP.  
 HERRIN TP.  
 HEYWORTH COMMUNITY  
 HIGHLAND  
 HIGHLAND PARK (*Deerfield Tp.*)  
 HILLSBORO COMMUNITY  
 HINCKLEY  
 HINDSBORO COMMUNITY  
 HINSDALE TP.  
 HITTLE TP. (*Armington*)  
 HOLY FAMILY ACADEMY (*Beaverville*)  
 HOMER  
 HOOPESTON  
 HOPKINS TP. (*Granville*)  
 HUME TP.  
 HUTSONVILLE TP.  
 HYDE PARK HIGH SCHOOL (*Chicago*)  
 ILLIOPOLIS  
 INDIANOLA COMMUNITY  
 INDUSTRY TP.  
 IRVING  
 JACKSONVILLE  
     HIGH SCHOOL  
     ROUTT COLLEGE ACADEMY  
 JENNINGS SEMINARY (*Aurora*)  
 JERSEYVILLE TP.  
 JOHNSTON CITY TP.  
 JOHN SWANEY SCHOOL (*McNabb*)  
 JOINT TP. (*Tiskilwa*)  
 JOLIET  
     TOWNSHIP HIGH SCHOOL  
     PROVIDENCE HIGH SCHOOL  
     ST. FRANCIS ACADEMY  
     JOSEPHINUM ACADEMY (*Chicago*)  
 J. STERLING MORTON TP. (*Cicero*)  
 KANKAKEE  
 ST. JOSEPH SEM.  
 KANSAS  
 KENILWORTH (*New Trier Tp.*)  
 KENNEY COMMUNITY  
 KENWOOD INSTITUTE (*Chicago*)  
 KEWANEE  
 KEWANEE (*Wethersfield Tp.*)  
 KINMUNDY  
 KIRKWOOD  
 KNOXVILLE  
 LACON UNION  
 LAFAYETTE TP.  
 LAGRANGE (*Lyons Tp.*)  
 LAGRANGE: (*Nazareth Academy*)  
 LAKE FOREST  
     ACADEMY OF SACRED HEART  
     LAKE FOREST ACADEMY  
     FERRY HALL  
 LAKE VIEW HIGH SCHOOL (*Chicago*)  
 LANARK  
 LANE TECHNICAL HIGH SCHOOL (*Chicago*)  
 LASALLE (*La Salle-Peru Tp.*)  
 LATIN SCHOOL (*Chicago*)  
 LAWRENCEVILLE TP.  
 LEBANON  
     HIGH SCHOOL  
     MCKENDREE COLLEGE ACADEMY  
 LELAND COMMUNITY  
 LENA  
 LEROY TP.  
 LEWISTOWN  
 LEXINGTON COMMUNITY  
 LIBERTYVILLE TP.  
 LINCOLN COMMUNITY  
 LINDBLOM HIGH SCHOOL (*Chicago*)  
 LINCOLN HIGH SCHOOL (*East St. Louis*)  
 LISIE (*St. Procopius Col. Acad.*)  
 LITCHFIELD COMMUNITY  
 LOCKPORT TP.  
 LODA TP.  
 LONG VIEW TP.  
 LORETTA ACADEMY (*Chicago*)  
 LOVINGTON TP.  
 LOYOLA ACADEMY (*Chicago*)  
 LUCY FLOWERS TECH. (*Chicago*)  
 LUTHER INSTITUTE (*Chicago*)  
 LYONS TP. (*La Grange*)  
 MCHENRY COMMUNITY  
 MCKENDREE COLLEGE ACADEMY (*Lebanon*)  
 MCKINLEY HIGH SCHOOL (*Chicago*)  
 MCLEAN COMMUNITY  
 MCLEANSBORO  
 MCNABB (*John Swaney Tp.*)

- MACKINAW TP.  
 MACOMBS  
     HIGH SCHOOL  
     WESTERN ILL. NOR. ACAD.  
 MAGNOLIA TP.  
 MAINE TP. (*Des Plaines*)  
 MANSFIELD COMMUNITY  
 MANUAL TRAINING HIGH SCHOOL (*Peoria*)  
 MARENGO COMMUNITY  
 MARION TP.  
 MARISSA TP.  
 MAROA TP.  
 MARSEILLES  
 MARSHALL HIGH SCHOOL (*Chicago*)  
 MARSHALL TP.  
 MARTINSVILLE  
 MARYWOOD SCHOOL (*Evanston*)  
 MASCOUTAH  
 MASON CITY COMMUNITY  
 MATTOON  
 MAYWOOD (*Proviso Tp.*)  
 MAZON TP.  
 MEDILL HIGH SCHOOL (*Chicago*)  
 MENDON TP.  
 MENDOTA TP.  
 METAMORA TP.  
 METROPOLIS  
 MILFORD TP.  
 MINIER COMMUNITY  
 MINONK COMMUNITY  
 MISS SPAIDS' SCHOOL (*Chicago*)  
 MOLINE  
 MOMBENCE COMMUNITY  
 MONMOUTH  
 MONTICELLO COMMUNITY  
 MONTICELLO SEMINARY (*Godfrey*)  
 MOORE TP. (*Farmer City*)  
 MOOSEHEART (*Educational Institute High School*)  
 MORGAN PARK (*Chicago*)  
 MORGAN PARK MILITARY ACADEMY (*Chicago*)  
 MORRIS  
 MORRISON  
 MOUND CITY  
 MOUNDS TP.  
 MT. CARMEL  
 MT. CARROLL  
     HIGH SCHOOL  
     FRANCES SHIMER SCHOOL  
 MT. MORRIS  
     COMMUNITY HIGH SCHOOL  
     MT. MORRIS COL. ACAD.  
 MT. OLIVE COMMUNITY  
 MT. PULASKI TP.  
 MT. STERLING  
 MT. VERNON TP.  
 NOWAQA  
 MUNCIE (*Oakwood Tp.*)  
 MURPHYSBORO TP.  
 NAPERVILLE  
     HIGH SCHOOL  
     NORTHWESTERN COL. ACAD.  
 NASHVILLE  
 NEOGA TP.  
 NEW BERLIN TP.  
 NEWMAN TP.  
 NEWTON COMMUNITY  
 NEW TRIER TP. (*Kenilworth*)  
 NIXON TP. (*Weldon*)  
 NOKOMIS TP.  
 NORMAL  
     HIGH SCHOOL  
     UNIV. HIGH SCHOOL  
 NORTH PARK COLLEGE ACADEMY (*Chicago*)  
 NORTHWESTERN COLLEGE ACADEMY (*Naperville*)  
 NOTRE DAME CONVENT (*Bourbonais*)  
 OAKLAND TP.  
 OAK PARK AND RIVER FOREST TP. (*Oak Park*)  
 OAKWOOD TP. (*Muncie*)  
 OELONG TP.  
 OELL  
     HIGH SCHOOL  
     ST. PAUL'S HIGH SCHOOL  
 O'FALLON TP.  
 OLIVET (*College Academy*)  
 OLNEY TP.  
 ONARGA  
     TOWNSHIP HIGH SCHOOL  
     ONARGA MILITARY SCHOOL  
 OREGON  
 ORION  
 OTTAWA TP.  
 OUR LADY OF PROVIDENCE ACADEMY (*Chicago*)  
 PALATINE TP.  
 PALESTINE TP.  
 PANA TP.  
 PARIS  
 PARKER HIGH SCHOOL (*Chicago*)  
 F. W. PARKER SCHOOL (*Chicago*)  
 PAWNEE TP.  
 PAWPAW  
 PAXTON  
 PAYSON  
 PECATONICA  
 PEKIN COMMUNITY  
 PEORIA  
     ACADEMY OF OUR LADY  
     AVERYVILLE HIGH SCHOOL  
     BRADLEY POLYTECHNIC INST.  
     MANUAL TR. HIGH SCHOOL  
     PEORIA HIGH SCHOOL  
     SPALDING INSTITUTE  
 PEOTONE  
 PETERSBURG  
 PHILLIPS HIGH SCHOOL (*Chicago*)  
 PINKNEYVILLE COMMUNITY  
 PIPER CITY  
 PITTSFIELD  
 PLAINFIELD  
 PLANO  
 PLEASANT HILL  
 PLEASANT PLAINS TP.  
 POLO COMMUNITY  
 PONTIAC TP.  
 POTOMAC TP.  
 PRINCETON TP.  
 PRINCEVILLE  
 PROPHETSTOWN  
 PROVISO TP. (*Maywood*)  
 PULLMAN FREE SCHOOL OF MAN. TRAINING (*Chi.*)  
 QUINCY  
     HIGH SCHOOL  
     QUINCY COLLEGE ACADEMY  
     ST. MARY'S ACADEMY  
 RANKIN TP.  
 RANTOUL: (*Donoran Memorial*)  
 RANTOUL TP.  
 RAYMOND COMMUNITY  
 RICHMOND COMMUNITY  
 RIDGEFARM TP.  
 RIVERSIDE (*Riverside-Brookfield Tp.*)  
 ROANSKE TP.  
 ROBERTS TP.  
 ROBINSON TP.  
 ROCHELLE COMMUNITY  
 ROCK FALLS TP.  
 ROCKFORD  
     HIGH SCHOOL  
     ST. THOMAS HIGH SCHOOL  
 ROCK ISLAND  
     HIGH SCHOOL  
     AUGUSTANA COL. ACAD.  
     ST. JOSEPH'S ACADEMY  
     VILLA DE CHANTAL  
 ROLO TP.  
 ROSEVILLE TP.  
 ROSS TP. (*Alton*)  
 ROSSVILLE  
 ROUTT COLLEGE ACADEMY (*Jacksonville*)  
 RUSHVILLE  
 SACKED HEART ACADEMY (*Springfield*)  
 ST. ALBAN'S SCHOOL (*Sycamore*)  
 ST. ANNE  
 ST. CHARLES  
 ST. CYRIL ACADEMY (*Chicago*)  
 ST. ELMO  
 ST. FRANCIS ACADEMY (*Decatur*)  
 ST. FRANCIS ACADEMY (*Joliet*)  
 ST. FRANCIS XAVIER ACADEMY (*Chicago*)  
 ST. IGNATIUS ACADEMY (*Chicago*)  
 ST. JOSEPH'S ACADEMY (*Bloomington*)  
 ST. JOSEPH'S ACADEMY (*Joliet*)

ST. JOSEPH'S ACADEMY ( <i>Rock Island</i> )	TONICA COMMUNITY
ST. JOSEPH'S HIGH SCHOOL ( <i>Cairo</i> )	TOULON TP.
ST. JOSEPH'S SEM. ( <i>Kankakee</i> )	TRENTON
ST. LOUIS ACADEMY ( <i>Chicago</i> )	TULEY HIGH SCHOOL ( <i>Chicago</i> )
ST. MARY'S ACADEMY ( <i>Quincy</i> )	TUSCOLA COMMUNITY
ST. MARY'S HIGH SCHOOL ( <i>Bloomington</i> )	UNIVERSITY HIGH SCHOOL ( <i>Chicago</i> )
ST. MARY'S HIGH SCHOOL ( <i>Chicago</i> )	UNIVERSITY HIGH SCHOOL ( <i>Normal</i> )
ST. MARY'S HIGH SCHOOL ( <i>Champaign</i> )	UNIVERSITY SCHOOL FOR GIRLS ( <i>Chicago</i> )
ST. MARY'S HIGH SCHOOL ( <i>Sterling</i> )	URBANA
ST. PAUL'S HIGH SCHOOL ( <i>Odell</i> )	URSULINE ACADEMY ( <i>Alton</i> )
ST. PROCOPIUS COLLEGE ACADEMY ( <i>Lisle</i> )	URSULINE ACADEMY ( <i>Springfield</i> )
ST. RITA COLLEGE ACADEMY	VANDALIA
ST. STANISLAUS COLLEGE ACADEMY ( <i>Chicago</i> )	VENICE
ST. THOMAS SCHOOL ( <i>Rockford</i> )	VERMILION GROVE
ST. THOMAS THE APOSTLE ( <i>Chicago</i> )	VERMILION ACADEMY
ST. VIATOR'S COL. ACADEMY ( <i>Bourbonais</i> )	VERMONT COMMUNITY
SALEM	VERSAILLES
SANDWICH	VIENNA TP.
SAUNEMIN TP.	VILLA DE CHANTAL ( <i>Rock Island</i> )
SAVANNA TP.	VILLA GROVE TP.
SAYBROOK COMMUNITY	VIRDEN COMMUNITY
SENN HIGH SCHOOL ( <i>Chicago</i> )	VIRGINIA
SHEFFIELD COMMUNITY	VISITATION HIGH SCHOOL ( <i>Chicago</i> )
SHELBYVILLE	WALLER HIGH SCHOOL ( <i>Chicago</i> )
SHELDON	WALNUT COMMUNITY
SIDELL TP.	WALNUT GROVE TP. ( <i>Altona</i> )
SOUTHERN ILLINOIS NORMAL UNIV. HIGH SCHOOL ( <i>Carbondale</i> )	WARREN
SPALDING INSTITUTE ( <i>Peoria</i> )	WARSAW
SPARTA TP.	WASHBURN TP.
SPRINGFIELD	WASHINGTON
HIGH SCHOOL	WATERLOO
SACRED HEART ACADEMY	WATERMAN COMMUNITY
URSULINE ACADEMY	WATSEKA
SPRING VALLEY ( <i>Hall Tp.</i> )	WAUKEGAN TP.
STANFORD COMMUNITY	WAVERLY TP.
STARRETT SCHOOL FOR GIRLS ( <i>Chicago</i> )	WAYNESVILLE TP.
STAUNTON COMMUNITY	WELDON ( <i>Nixon Tp.</i> )
STERLING	WELLINGTON TP.
TP. HIGH SCHOOL	WENONA
ST. MARY'S HIGH SCHOOL	WEST CHICAGO
STOCKLAND TP.	WEST HIGH SCHOOL ( <i>Aurora</i> )
STOCKTON	WESTERN ILLINOIS NORMAL ACADEMY ( <i>Macomb</i> )
STONINGTON COMMUNITY	WESTERN MILITARY ACADEMY ( <i>Alton</i> )
STREATOR TP.	WEST FRANKFORT COMMUNITY
STRONGHURST	WESTVILLE TP.
SULLIVAN TP.	WHEATON
SUMNER HIGH SCHOOL ( <i>Chicago</i> )	HIGH SCHOOL
SYCAMORE	COLLEGE ACADEMY
COMMUNITY HIGH SCHOOL	WHITE HALL COMMUNITY
ST. ALBAN'S SCHOOL	WILSON SCHOOL ( <i>Chicago</i> )
TALLULA COMMUNITY	WINCHESTER
TAMPICO TP.	WINDSOR
TAYLORVILLE TP.	WOODHULL TP.
THEBES TP.	WOOD RIVER ( <i>E. Alton Wood River Com.</i> )
THORNTON TP. ( <i>Harvey</i> )	WOODSTOCK COMMUNITY
TILDEN HIGH SCHOOL ( <i>Chicago</i> )	YATES CITY TP.
TISKILWA ( <i>Joint Tp.</i> )	Y. M. C. A. DAY SCHOOL ( <i>Chicago</i> )
TOLEDO	YORKVILLE

## DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The amount of work in each of the foregoing subjects which corresponds to the minimum number of credits assigned is shown by the description of subjects below.

1. **AGRICULTURE.**—Courses in agriculture should be arranged for periods of not less than 36 weeks. Such a course may be accepted for one unit of entrance credit, and two such courses may be accepted for two units, provided the work covered by each course is so closely related in its parts as to constitute one of the generally accepted divisions now recognized in agricultural work. At least one-half of the time should be devoted to laboratory work, and note-books should be presented.

2. **ALGEBRA, One and one-half units.**—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals, quadratic equations and equations reducible to quadratic form, surds, theory of exponents, proportion and variation, logarithms, and the analysis and solution of problems involving these principles.

**ALGEBRA, One unit.**—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals of second order, fractional exponents, variation and proportion,

quadratics, including completing the square and simultaneous equations having one quadratic and one linear equation and quadratic systems of simple form. See High School Manual for detailed outline.

3. **ASTRONOMY.**—In addition to a knowledge of the descriptive matter in a good text-book, there must be some practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of the conspicuous naked-eye heavenly bodies.

4. **BOOKKEEPING.**—The unit of work in bookkeeping for college entrance should aim to give a working knowledge of double entry bookkeeping, consisting of the fundamental principles, with particular emphasis on the study of business transactions and their interpretation in the ledger accounts, through the media known as books of original entry. The student should be drilled in the making of simple trading and profit and loss statements and of balance sheets, and should be able to explain the meanings of the items involved in both. The work should be done under the immediate supervision of a teacher, and the student should devote at least ten periods of not less than forty minutes full time in class each week for one academic year.

5. **BOTANY.**—A familiar acquaintance with the general structure of plants and of the principal organs and their functions, derived to a considerable extent from a study of the objects, is required; also a general knowledge of the main groups of plants; and the ability to classify and name the more common species. Laboratory note-books and herbarium collections should be presented.

6. **BUSINESS LAW.**—The amount of business law which is accepted is indicated by the ground covered in any of the ordinary text-books on the subject, such as Spencer's Elements of Commercial Law, Burdick's Business Law, and White's Elements of Commercial Law.

7. **CHEMISTRY.**—The instruction must include both text-book and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course as given in the best high schools in one year will satisfy the requirement of the University for the one unit for admission. The laboratory notes, bearing the teacher's indorsement, must be presented as evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

8. **CIVICS.**—The high-school course for one term should deal mainly with American government (local, state, and national), political institutions, and citizenship. Such text-books as Ashley, Forman, and Garner indicate the field required. A full year's high-school course may give attention to social problems.

9. **COMMERCIAL ARITHMETIC.**—The amount of work to be covered is represented by that found in any of the ordinary first-class texts on the subject, such as Smith's, Finney's, Bookman's, Rowe's "New Essentials," Thurston's, and Baker's. Instruction should constantly attempt to emphasize the relation of arithmetic to business customs and procedures.

10. **COMMERCIAL GEOGRAPHY.**—The amount and character of the work accepted in this subject is indicated by the scope of such books as Redway's Commercial Geography, Adam's smaller book on the same subject, the text-books of Brigham, or Robinson, or Trotter's work.

11. **DOMESTIC SCIENCE.**—(a) An equivalent of 180 hours of prepared work with at least two recitation periods a week in foods. (b) An equivalent of 180 hours of prepared work with at least one recitation period a week in clothing. (c) An equivalent of 180 hours of prepared work with at least two recitation periods a week on the home. (Two periods of laboratory work are considered equivalent to one period of prepared work.) Either (a) or (b) or (c) will be accepted for one unit; or one-half unit may be accepted in each of these divisions. Where two years are offered, it is desirable that one semester in the second year

be devoted to the home. The work is to be done by trained teachers with individual equipment, as determined by inspection.

12. **DRAWING.**—Freehand or mechanical drawing, or both. Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.

13. **ECONOMICS.**—The principles of economics, with economic history, as given in any good elementary text-book.

14. **ENGLISH COMPOSITION AND RHETORIC.**—On entering the University a student is expected to have a working knowledge of spelling, punctuation, grammar, sentence structure, and paragraphing, and to be able to write with considerable accuracy and effectiveness. He is expected to know the application of grammatical terms as used in a good text-book and to be able to state the essential principles of grammar and to explain the grammatical structure of any sentences encountered in his reading. He is supposed to know the elementary principles of rhetoric, the technical terms used in the subject, and the application of the principles to ordinary composition. The degree of proficiency expected in grammar, rhetoric, and composition can hardly be acquired in less than one period each week for four years. During at least half of this time the student should have written compositions under supervision and have received individual criticism of his written work. A review of grammar and some supervised composition in the fourth preparatory year are strongly advised. The elementary course in composition required of all students in the University is based on the assumption that each student has at least the degree of proficiency suggested in the foregoing paragraph.

On entering the University, students are registered tentatively in the first course in composition, Rhetoric I, and are tested in their ability to write. Those who do not show a degree of proficiency suggested in the foregoing paragraph are excluded from Rhetoric 1 and assigned to a preparatory course.

15. **ENGLISH LITERATURE.**—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups from which at least ten units are to be selected, two from each group. Each unit is here set off by semicolons.

I. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; Vergil's Aeneid. The Iliad, the Odyssey, and the Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

II. Shakespeare's Merchant of Venice; Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Caesar.

III. Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Scott's Ivanhoe or Quentin Durward; Hawthorne's House of Seven Gables; Dickens' David Copperfield or Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

IV. Bunyan's Pilgrim's Progress, Part I; Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humorists; selections from Lincoln, including the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden or selection from Huxley's

Lay Sermons; Stevenson's *Inland Voyage and Travels with a Donkey*; the *Atlantic's* Prose and Poetry.

V. Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *Deserted Village*; Coleridge's *Ancient Mariner* and Lowell's *Vision of Sir Launfal*; Scott's *Lady of the Lake*; Byron's *Childe Harold*, Canto IV, and *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series) Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *Raven*, Longfellow's *Courtship of Miles Standish*, Whittier's *Snow Bound*; Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*.

(b) In addition to the foregoing the candidate will be required to present a careful, systematic study, with supplementary reading, of the history of either English or American literature.

(c) The candidate will be examined on the form and substance of certain books in addition to those named under (a). For 1921 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named in order to pass it successfully. The list is:

Shakespeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

The work outlined in (a), (b), and (c) counts for two units.

(d) The three units in English composition, rhetoric, and literature, as described above are required for all students. A fourth unit may be obtained for one full year's additional work in the study of English and American authors.

16. FRENCH, *First year's work*.—Elementary grammar, with the more common irregular verbs. Careful training in pronunciation. About 100 pages of easy prose should be read. *Second year's work*.—Advanced grammar, with all the irregular verbs. Elementary composition and conversation. About 300 pages of modern French should be read. *Third year's work*.—Intermediate composition and conversation. About 500 pages of standard authors should be read, including a few classics. *Fourth year's work*.—Advanced composition and conversation. Standard modern and classical authors should be read and studied to the extent of 700 pages.

17. GENERAL SCIENCE.—The subject matter must be of a character such as to enable the student to interpret his obvious environment, both natural and mechanical, in terms of the fundamental principles of science involved. The work necessary to earn a full unit of credit must be conducted as a laboratory science with double periods for unprepared work.

18. GEOLOGY.—For one unit, the equivalent of a year's work as conducted in first-class high schools. Such a course includes the thoro study of one of the more abbreviated modern text-books of geology, a generous amount of laboratory work on specimens, maps, models, etc., and wherever possible, several field trips. When available, laboratory note-books should be presented.

19. GEOMETRY.—(a) *Plane Geometry*. Special emphasis is placed on the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.

(b) *Solid and Spherical Geometry*. Applications to the solution of original exercises are emphasized.



20. **GERMAN.**—Pupils should be trained to understand spoken German and to reproduce freely in writing and orally what has been read. A thoro knowledge of grammar is expected. No attempt is made in what follows to give more than a general outline for the work of successive years. *First year's work.*—At the end of the year pupils should be able to read intelligently and with accurate pronunciation simple German prose, to translate it into idiomatic English, and to answer in German easy questions on the passage read. A few short poems may be memorized. Elementary grammar should be mastered up to the subjunctive. Easy prose composition rather than the writing of forms will be the test of the grammatical work in entrance examinations. *Second year's work.*—Only modern writers should be read, preference being given to material which has a distinctly German atmosphere and which lends itself to conversational treatment in the class room. The recitations should afford constant oral and written drill on the elementary grammar of the previous year. The beginner's book should be completed, but more importance is attached to accuracy and facility in simple modes of expression than to a theoretical knowledge of advanced syntax. *Third year's work.*—Most of the time should still be devoted to modern prose. There should be some work in advanced prose composition—based on German models—and the recitations should continue to afford abundant oral practise. Pupils ought by this time to understand spoken German. *Fourth year's work.*—At the end of this year a pupil should be able to read at sight any prose or verse of moderate difficulty, and be able to express himself orally or in writing with readiness and accuracy. Work in composition should take the form of free reproduction of portions of the texts studied rather than translation of English selections. The reading should be divided about equally between modern and classical authors.

21. **GREEK, First year's work.**—The exercises in any of the beginning books, and one book of the *Anabasis* or its equivalent. *Second year's work.*—Two additional books of the *Anabasis* and three of Homer, or their equivalents, together with an amount of Greek prose composition equal to one exercise a week for one year. *Third year's work.*—Three additional books of the *Iliad*, three of the *Odyssey*, and Books VI, VII, VIII of Herodotus, or an equivalent from other authors.

22. **HISTORY.**—One, two, or three units may be presented, to be chosen from the following list: Ancient history to 800 A. D., one unit; medieval and modern history, one unit; English history, one-half or one unit; American history, one-half or one unit.

Examinations for entrance will be given in all these subjects. The examination for each unit is intended to cover one full year of high-school work.

23. **LATIN, First year's work.**—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories. *Second year's work.*—Four books of Caesar's Gallic War, or its equivalent in Latin of equal difficulty; the ability to write simple Latin based on the text. *Third year's work.*—Six orations of Cicero; the ability to write simple Latin based on the text; the simpler historical references and the fundamental facts of Latin syntax. *Fourth year's work.*—Six books of Vergil's *Aeneid*, with history and mythology; the scansion of hexameter verse.

24. **MANUAL TRAINING.**—The requirement for one unit is the equivalent of 361 forty-minute periods in manual training following the syllabus prepared by the manual-training section of the High School Conference.

25. **MUSIC.**—Credit in harmony, history of music, and musical appreciation, one unit or two units, is acceptable by certificate, from schools accredited therefor, for admission to all departments of the University. To be acceptable, courses in these branches must conform to the schedule adopted by the University, as follows:

Courses in Harmony, History of Music, and Musical Appreciation will be accredited on the same basis as other High School courses, namely: Five hours of recitation per week and five hours of preparation per week for 36 weeks will receive one unit of credits. Five

hours of recitation per week without preparation will receive one-half unit. Written work will be required in all courses, but pre-eminently in Harmony.

(a) **HARMONY, First year's work.**—Elements of musical notation; Construction of major and minor scales; keys; signatures; intervals, general and specific; key relationships; consonances and dissonances; triads, primary and secondary; inversions of triads; chord progressions; simple melodies harmonized with tonic, dominant, and sub-dominant harmonies.

**HARMONY, Second year's work.**—Review of triads; seventh chords, primary and secondary; harmonization of simple melodies with triads and seventh chords; harmonic analysis; original work.

(b) **History of Music:** A text-book course, with recitations and written work, touching the beginning of music, and including a fairly comprehensive study of the development of music since A. D. 1600 and acquaintance with the lives and productions of the greatest composers and performers. One year.

(c) **Music Appreciation** based upon the standard choruses and instrumental selections from the works of the great composers of each epoch, with instructions in elementary theory, sight-singing and ear-training. One year.

(d) A composite course may be offered including harmony, history of music, and musical appreciation, any two of these subjects, and subject to the same regulations, with the added specification that in such a course at least one recitation per week in harmony with written preparation, shall be included. Two years.

Applied music to the extent of one unit may be accepted with the provision that one unit in theoretical music is offered at the same time and that these courses shall have been preceded by two years of high-school music.

For admission to the School of Music only, two units in "practical" music, i. e., piano, voice, or violin, are required. Students obtain credits in the "practical" music by examination. In the examination for two units in *piano*, students are required to play the following or the equivalent: Simple scales and arpeggios at fairly rapid tempo; scales in double octaves at moderate speed; Bach, Two-Part Invention; Czerny, Op. 229; an easy sonata of Haydn, Mozart, or Beethoven. In the examination for two units in *voice*, students are required to sing the following or the equivalent: Simple scales and arpeggios; studies selected from Concone, Sieber, Panofka, and Panseron; songs selected from Schubert, Schumann, and modern composers. In the examination from units in *violin*, students are required to play the following or the equivalent: Gruenberg, Foundation Exercises, numbers 81 to 117; Kayser, Opus 20, Book 2; Wohlfarth, Opus 74, Book 2; Allen, Polonaise, Opus 7, and Seitz, Concertino, No. 1, D major.

26. **PHYSICS.**—One year's high-school work covering the elements of physical science as presented in the best of the current high school text-books of physics. Laboratory practise in elementary quantitative experiments should accompany the text-book work. The candidate's laboratory note-book will be considered as part of the examination.

27. **PHYSICAL GEOGRAPHY.**—One year's work, fully covering such a text-book as those of R. S. Tarr and W. M. Davis. It is assumed that the recitations have been accompanied by several hours of laboratory work per week on various types of maps, models, etc., as well as by field excursions. Laboratory note-books should be presented for inspection.

28. **PHYSIOLOGY.**—For one-half unit: The anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent shown in Martin's Human Body (Briefer Course). For more than one-half unit, the course must include practical laboratory work.

29. **SHORTHAND AND TYPEWRITING.**—These subjects must be taken together; no credit is given for either one by itself. For *one unit*, the time requirement is two periods daily of not less than forty minutes each for one year of thirty-six weeks, and the standard of

attainment is 75 words a minute in taking dictation and 25 words a minute in the transcription on the machine of such dictation. For *two units*, the time requirement is two periods daily of not less than forty minutes each for two years of thirty-six weeks, and the standard of attainment is 100 words a minute in taking dictation and 35 words a minute in the transcription on the machine of such dictation. Accuracy in spelling, punctuation, capitalization, and paragraphing should be emphasized; and attention should be given to the care of the machine, methods of copying, manifolding, etc.

30. *SPANISH, First year's work.*—Elementary grammar, including thoro drill in the irregular verbs; careful training in pronunciation, and translation of simple Spanish when spoken; reading of about 100 pages of easy prose; simple composition and dictation. *Second year's work.*—In addition to the foregoing, about 300 pages of modern prose; elementary syntax; dictation, composition, and translation of spoken Spanish continued.

31. *TRIGONOMETRY.*—The work should cover the field of plane trigonometry, as given in standard text-books, including the solution of right and oblique triangles. Special emphasis is placed upon the solution of practical problems, trigonometric identities, and trigonometric equations.

32. *ZOOLOGY.*—The instruction must include laboratory work equivalent to four periods a week for a half-year, besides the time required for text-book and recitation work. Note-books and drawings must be presented to show the character of the work done and the types of animals studied. The drawings are to be made from the objects themselves, not copied from illustrations, and the notes are to be a record of the student's own observations of the animals examined. The amount of equipment and the character of the surroundings must determine the nature of the work done and the kind of animals studied; but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among the several larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom, with their most important distinguishing characteristics, and with illustrative examples selected, when practicable, from familiar forms, ought also to be known.

# GRADUATION—FIRST DEGREES

## THE BACHELOR'S DEGREE

A bachelor's degree is conferred on any student who satisfactorily completes the curriculum described under one of the various colleges and schools, doing either the first three years, or the last year, of his work in residence at the University.

### Residence Requirement

If the student is in residence at the University for one year only, that year's work must be taken in the college from which the degree is expected. No person will be recommended for a degree by the faculty of any college in the University unless he has been a regularly registered student in that college for at least one year, during which time he shall complete not less than thirty semester hours in course.

### Number of Hours Required

A candidate for a bachelor's degree must pass in the subjects marked *prescribed* in his chosen curriculum, and must conform to the directions given in connection with that curriculum in regard to electives. In the College of Liberal Arts and Sciences (for the A.B. degree), the College of Commerce and Business Administration, and the College of Agriculture, credit for 130 hours is required for graduation. In the curriculums in chemistry and chemical engineering in the College of Liberal Arts and Sciences, in the College of Engineering, in the College of Law, in the Library School, and in the School of Music, the candidate must complete the curriculum as laid down.

In order to receive his bachelor's degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work, prescribed or elective, required for such degree.

### Military Science and Physical Education

The number of hours required includes, for men, four in military drill and tactics and two in physical education; and for women, three in physical education. Men excused from the military requirements, and women who do not take the course in physical education, must elect instead an equivalent number of hours in other subjects.

### Thesis

In all cases in which a thesis is required<sup>1</sup>, the subject must be announced not later than the first Monday in November, and the completed thesis must be submitted to the dean of the proper college by June 1. The work must be done under the direction of the professor in whose department the subject belongs, and must be in the line of the curriculum for which a degree is expected. The thesis must be presented on regulation paper; it is deposited in the library of the University.

### Degrees Conferred Four Times a Year

The annual commencement exercises are held in June, but degrees may be conferred at other times as follows:

Students who complete their work at the end of the first semester may, on application, be recommended for their degree at the February meeting of the Senate.

Students who are to complete their work for the bachelor's or the master's degree in the Summer Session, and who register in advance of the June meeting of the Senate for

<sup>1</sup>See requirements for graduation in various colleges.

specified courses in that session which complete the requirements in their cases, may be recommended at the June meeting, subject to the successful completion of the specified courses in the Summer Session.

Students who complete their work at the end of the Summer Session may, on application, be recommended at the October meeting of the Senate.

All graduates are ranked as of the class of the calendar year in which their degrees were conferred, i. e., students who receive their diplomas in August or October, with the class of the preceding June, and those who receive their diplomas in February, with the class of the following June.

### **Second Bachelor's Degree**

A student who has already received one bachelor's degree may receive a second bachelor's degree, provided that all specified requirements for both degrees be fully met, and provided also that the curriculum offered for the second degree include at least 30 semester hours not counted for the first degree.

### **LIST OF FIRST DEGREES**

1. The degree of BACHELOR OF ARTS is conferred on those who complete a curriculum in literature and arts, or certain curriculums in science, in the College of Liberal Arts and Sciences.

2. The degree of BACHELOR OF SCIENCE is conferred on those who complete a curriculum in the College of Engineering, in the College of Commerce and Business Administration, in the College of Agriculture, or in the College of Education. This degree is conferred on a graduate of the College of Liberal Arts and Sciences who completes a curriculum in chemistry or chemical engineering, or a student in the College of Education who completes the requirements for graduation as stated on page 189, and may be conferred on graduates from other curriculums in this College on recommendation of the faculty. It may also be conferred on students who offer two years of acceptable college work for admission to the College of Medicine and complete the two years of scientific work in medical subjects and subjects preparatory to medicine which are offered in the Junior College; on the completion of the two additional years in clinical work offered in the Senior College, such students may receive the degree of Doctor of Medicine.

3. The degree of BACHELOR OF LAWS is conferred on those who complete the curriculum in the College of Law.

4. The degree of DOCTOR OF LAW is conferred on those who complete the curriculum in the College of Law, satisfying certain special requirements additional to those for the degree of Bachelor of Laws.

5. The degree of BACHELOR OF LIBRARY SCIENCE is conferred on those who complete the curriculum in the Library School.

6. The degree of BACHELOR OF MUSIC is conferred on those who complete one of the curriculums in the School of Music.

7. The degree of DOCTOR OF MEDICINE is conferred on those who complete the curriculum in the College of Medicine.

8. The degree of DOCTOR OF DENTAL SURGERY is conferred on those who complete the curriculum in the College of Dentistry.

9, 10. The degree of GRADUATE IN PHARMACY, or of PHARMACEUTICAL CHEMIST, is conferred on those who complete the shorter and the longer curriculums, respectively, in the School of Pharmacy.

# HONORS AND COMPETITIONS

---

## UNIVERSITY HONORS

The University gives public official recognition to such students as attain a high grade of scholarship by the following system of honors.

### Preliminary Honors

*Preliminary Honors* are assigned at the completion of the sophomore year on the basis of the average of the grades received during the freshman and sophomore years in all studies except military and physical training. To be eligible for preliminary honors a student must have received grades of "A" in at least fifty per cent. and must not have received grades of "C" or lower in more than fifteen per cent. of the work in which honor is sought. Preliminary Honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduation.

### Final and Special Honors

*(Candidates for the Degrees of B.S., B.Mus., LL.B., and B.L.S.)*

*Final Honors* are assigned on graduation on the basis of the average grades received during the junior and senior years. To be eligible for final honors a student must have received grades of "A" in at least fifty per cent. and must not have received grades of "C" or lower in more than fifteen per cent. of the work in which honors is sought. Final honors are designed especially to favor students whose preparatory education has been so imperfect as to prevent them from receiving preliminary honors.

*Special Honors* are awarded at the close of the senior year. No student may receive such honors who has not completed, before the beginning of his senior year, at least twenty hours' work in the subject, or group of allied subjects, in which the honors are proposed; he must complete thirty hours' work in the same subject, or group of allied subjects, by the end of his senior year, must do such other work as the professor in charge may assign, and must prepare an acceptable thesis. No student is eligible for special honors who, during the senior year, has received a grade of less than C in any subject. Special honors are planned for especially brilliant students who prefer to concentrate their efforts on a special course. A student may be a recipient of both final and special honors.

### The Degree of Bachelor of Arts with Honors

The faculty of the College of Liberal Arts and Sciences has been authorized to recommend candidates for the degree of Bachelor of Arts *with honors* in a particular subject. Candidates for the degree with honors will be recommended by the faculty under the following conditions:

- (1) The student must have made A in at least three-fourths, and B in the remainder of the work offered for his major.
- (2) He must have completed the work offered for his minor with an average of not less than B.
- (3) Each candidate is required to present a thesis in his major subject.
- (4) Especially poor or careless work in any other subject may, by vote of the faculty, cause the honor degree to be withheld.

The purpose of these honors is not to encourage premature specialization but to give

special recognition to students who have pursued with success correlated courses of study, and to emphasize the importance, for scholarship in any subject, of thoro training in other related subjects. Candidates should announce their intention as early as possible in their college course and consult freely with the head of the department concerned in regard to the selection of their studies.

Candidates for the degree of Bachelor of Science in the College of Liberal Arts and Sciences are eligible for final and special honors under the regulations stated on page 92.

### **Freshman Honors**

#### *(College of Liberal Arts and Sciences)*

At the close of each year a list is prepared of those members of the freshman class in the College of Liberal Arts and Sciences who have made an especially good record in scholarship. The names of such students are announced at an assembly of the College; notice is also sent in each case to the parent or guardian, and to the principal of the high school of which the student is a graduate.

### **List of Honors**

The names of the students who received honors under the foregoing regulations during the academic year 1919-20 are published in part VII of the Register.

## **DEBATING AND ORATORY**

The University engages yearly in four intercollegiate debates, the teams for which are chosen in a series of competitive preliminaries to which all students are eligible.

THE I. M. I. DEBATING LEAGUE consists of the Universities of Illinois, Minnesota, and Iowa. It holds a debate at each university on the first Friday in December.

THE MIDWEST DEBATING LEAGUE consists of the Universities of Illinois, Michigan, and Wisconsin. It holds a debate at each university on the third Friday in March.

THE NORTHERN ORATORICAL LEAGUE, consisting of Northwestern University, and the state Universities of Illinois, Iowa, Michigan, Minnesota, and Wisconsin, holds an annual contest on the first Friday evening in May. The contests for 1921 will be held on May 6, at Iowa City, Iowa. The winner receives the Lowden testimonial of one hundred dollars, and the speaker awarded second place, fifty dollars. The Illinois representative is selected in competitive contests open to all undergraduates.

A FRESHMAN-SOPHOMORE DEBATE and an INTER-SOCIETY DECLAMATION CONTEST are held yearly.

### **The Interscholastic Oratorical Prize**

A medal of the value of twenty dollars, and two medals of the value of ten dollars each, are offered annually by the University to the high schools of the State for the best orations delivered in a competitive contest between their representatives. This contest takes place in the spring at the time of the interscholastic athletic meet—in 1921, on May 20-21.

## **PRIZES IN PUBLIC SPEAKING**

The division of Public Speaking gives annually silver cups as first and second prizes to the two graduating seniors who, by representing the University in intercollegiate contests in oratory and debate, have rendered the University the greatest service on the platform. The awards shall be based on participation in a minimum number of debates and on a scale of points won in contests.

### THE THACHER HOWLAND GUILD MEMORIAL PRIZE

Friends and admirers of Thacher Howland Guild, instructor and associate in English, 1904-14, have endowed the Thacher Howland Guild Memorial Prize, an annual prize of \$25, to be given to the undergraduate student submitting the poem or one-act play which in the opinion of a committee appointed by the department of English shows the greatest originality and literary merit; provided that the award may be withheld in any year if no production deemed worthy of a prize is submitted. The name of the winner of this prize is printed in the commencement program.

### ST. PATRICK'S DAY PRIZE

Division One of the Ancient Order of Hibernians offered in the spring of 1916 and again in 1917 a prize of \$50 for the best essay by an undergraduate or a graduate student of the University on a subject connected with Ancient Irish literature, history, or archeology. In the fall of 1917 the State Board of Illinois of the Ancient Order of Hibernians guaranteed that the prize would be offered annually. The essay, not less than 5,000 words in length, must be submitted one month before Commencement Day.

### THE BRYAN PRIZE

In 1898 Mr. William Jennings Bryan gave to the University the sum of two hundred fifty dollars, from the interest on which a prize of twenty-five dollars is offered biennially for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand nor more than six thousand words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901. It is offered next in 1921.

### ARCHITECTURE

#### The Francis J. Plym Fellowship in Architecture

By the generosity of Mr. Francis J. Plym, of Niles, Michigan, a graduate of the University of Illinois of the class of 1897, the Trustees have been enabled to establish a fellowship for the advanced study of architecture. The stipend attached to this fellowship is \$1,000, awarded annually by competition in Architectural Design. The holder of the fellowship is required to spend a year in study and travel abroad. For further information address the Department of Architecture.

#### The American Institute of Architects Medal

The American Institute of Architects offers annually a medal for award to the senior in the department of architecture whose development during the four years' course is the most consistent and best. In making the award the scholarship in all work is considered.

#### The Scarab Medal in Architecture

The Scarab Society of the department of architecture offers annually a bronze medal to be awarded during the second semester for the best solution of a problem in architectural design, the competition being limited to students in architecture.

THE PRIZE IN ARCHITECTURE of the American Academy in Rome is open for competition among qualified undergraduates and graduates of certain American architectural schools, including that of the University of Illinois. This prize grants three years of residence and travel abroad for the study of classic and renaissance architecture.



**MILITARY CONTESTS AND PRIZES****The University Bronze Medals**

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the infantry companies and artillery and signal detachments which shall score the greatest number of points at the annual competitive drill, held at some time between May 15 and May 31. The members of the company rifle team making the highest score at gallery target practise are also awarded medals. The medals so awarded become the permanent property of the recipients.

**The University Gold Medal**

The Board of Trustees provides annually a gold medal which is to be awarded at the annual competitive drill held near the close of the year, to the best drilled student, whose property the medal becomes. Each student must have matriculated in the University and must have completed one semester's work in Military 1 with a grade of not less than B, and three semesters' work in Military 2 with a grade of not less than A; and he must have an average standing of not less than C in all of his other studies for the preceding semester, which standing shall be determined by the Registrar. The name of the winner is published in the Annual Register of the University for the following year. The award is made for excellence in the same details as in the Hazelton contest.

**The Hazelton Prize Medal**

Captain W. C. Hazelton provided in 1890 a medal, which is awarded, at a competitive drill held at some time between May 15 and May 31, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must have had less than five unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in:

1. Erectness of carriage, military appearance, and neatness.
2. Execution of the school of the soldier, without arms.
3. Manual of arms, with and without numbers.

The name of the successful competitor is published in the Annual Register of the University for the following year. He is given a certificate setting forth the fact, and may wear the medal until the fifteenth day of the May following, when he must return it for the next competition.

**CHI OMEGA PRIZE**

The University of Illinois Chapter of Chi Omega offers annually a prize of twenty-five dollars for the best essay written by a woman in connection with any course in sociology.

**BETA GAMMA SIGMA PRIZE**

Alpha of Illinois chapter of Beta Gamma Sigma awards a silver cup each year to the Commerce freshman man who makes the highest scholastic average in his first semester's attendance at the University. The prize winner's name and average is engrossed upon a parchment scroll and the scroll is hung in a prominent place in the Commerce Building.

**LECTURES AND OTHER GENERAL EXERCISES**

A part of the instruction afforded by the University to its students is given through the medium of lectures by distinguished men and women from outside the University and by means of exhibitions, recitals, and other exercises distinct from the regular courses of instruction. A partial list of these exercises for the calendar year 1920 follows. Lectures by members of the University faculty are excluded from this list.

*GENERAL UNIVERSITY LECTURES**Convocations*

- Feb. 12. LINCOLN Day. Professor Luther E. Robinson: Lincoln, the representative American.  
 Mar. 23. THE WATT CENTENARY. Professor Lester Paige Breckenridge: James Watt, his life and its influence upon the industrial development of the world.  
 Nov. 11. ARMISTICE DAY.

*General University Lectures*

- Jan. 7. HONORABLE W. F. WHYTE, Member of Parliament (1910-18): The Peace Conference of 1919.  
 Jan. 12, 13. CAPTAIN BRUCE W. BENEDICT: Tanks.  
 Jan. 12, 13, 14. PROFESSOR A. P. NEWTON, University of London: The British Empire as an organic growth; Responsible and representative government in the colonies; Empire problems and their solution.  
 Mar. 15. GENERAL EBEN SWIFT: The World War.

*Star Course*

- Mar. 19. LEOPOLDO GODOWSKY, pianist.  
 Apr. 19. DEVEREAUX PLAYERS.  
 May 3. FLORENCE MACBETH, soprano.  
 May 15. MME. MATZENAUER, soprano.  
 Oct. 8. FRANCES ALDA, soprano.  
 Nov. 5. SALVI, harpist.  
 Nov. 27. CREATORE GRAND OPERA: Carmen.

*Symphony Course*

- Feb. 24. ST. LOUIS SYMPHONY ORCHESTRA.  
 May 13. MINNEAPOLIS SYMPHONY ORCHESTRA.  
 Oct. 23. NEW YORK CHAMBER MUSIC SOCIETY.

*EXHIBITIONS*

- Feb. 2-14. ART AND DESIGN EXHIBIT.  
 Feb. 9-20. ARCHITECTURAL EXHIBITION—Senior work in Design.  
 Mar. 1-16. EXHIBIT OF AMERICAN PAINTERS.  
 March 23. COLLEGE OF ENGINEERING OPEN HOUSE.  
 April 5-15. ARCHITECTURAL EXHIBITION—Student work in Design,—Freehand and Engineering.  
 April 8, 9, 10. ELECTRICAL SHOW.  
 Apr. 26. Exhibition of paintings in oil, pastel, and water color. By E. E. NEARPASS  
 May 21-29. ART AND DESIGN EXHIBIT.  
 May 30-Sept. 1. ARCHITECTURAL EXHIBITION—Student work of the year.  
 Sept. 28. ART EXHIBIT. Sketches of France. By RALPH FANNING.  
 Oct. 15-22. ARCHITECTURAL EXHIBITION—Studies from life, made by JOSEPH E. BURGESS.  
 Oct. 23-30. ARCHITECTURAL EXHIBITION—Senior work in Design.  
 Oct. 29. ART EXHIBIT. By DAUBERS' ART CLUB.  
 Nov. 12-15. ARCHITECTURAL EXHIBITION—Design work of the Architectural Engineers.

*Entertainments*

- Feb. 9. Post Exam Jubilee.  
Feb. 20. MILITARY BALL.  
Feb. 27. RECITAL by PIETRO YON, organist.  
Mar. 5. UNIVERSITY BAND CONCERT.  
Mar. 8. READING by WILLIAM BUTLER YEATS.  
Mar. 28. UNIVERSITY ORCHESTRA CONCERT.  
Apr. 17. "Jeanne D'Arc."  
Apr. 23, 24. "The Tyranny of Tears."  
May 9. Lecture under the auspices of the American Legion. COLONEL FOREMAN, State Commander of the American Legion: Americanism.  
May 14, 15. STUDENT OPERA, "Perpetual Emotion."  
May 20. ANNUAL MAY FETE.  
Y. W. C. A. STUNT SHOW.  
Oct. 21. CONCERT by SOUSA'S BAND.  
Oct. 29. CONCERT by U. S. MARINE BAND.  
HOMECOMING CARNIVAL.  
Dec. 4. FACULTY PLAYER'S CLUB: Oscar Wilde's "The Importance of Being Earnest."

*All University Services*

- Jan. 11. SERVICE in charge of the Y. M. C. A.  
Feb. 22. WASHINGTON DAY. JOEL B. HAYDEN: What is Americanism and where will it lead us?  
Dec. 12. CHRISTMAS SERVICE. In the interest of the Christmas Relief Fund.

*THE COLLEGE OF LIBERAL ARTS AND SCIENCES*

- Mar. 20-24. Lectures in French and English. Professor ALBERT FEUILLERAT of the University of Rennes.  
Mar. 29. LECTURE, Department of Zoology. Mr. WILLIAM FINLEY, State Biologist of Oregon: "Phases in the intimate life studies of wild birds and animals;" and "Birds and animals of the high Cascades."  
April 7, 8, 9. LECTURE. Professor M. TERMAN: "Intelligence tests as an aid in the grading of school children;" "The education of gifted children;" "Intelligence tests and vocational guidance."

*COLLEGE OF ENGINEERING*

*Short Courses and Conventions*

- Feb-16-20. SHORT COURSE IN HIGHWAY ENGINEERING.  
Mar. 1-13. SHORT COURSE IN CERAMIC ENGINEERING.  
Mar. 16-18. THIRD ANNUAL DRAINAGE CONFERENCE.  
June 21-July 3. SHORT COURSE FOR METERMEN.

*College Assemblies*

- Mar. 18. Mr. F. H. AVERY, Engineer of Bridge Construction and Repairs for the City of Chicago: City bridges.  
Mar. 26. Mr. LANGDON PEARSE, Chief Sanitary Engineer of the Sanitary District of Chicago: The latest methods of sewage treatment.  
Mar. 30. Mr. W. A. SLATER, Engineer Physicist, United States Bureau of Standards, Washington, D. C.: Some results of recent investigations in reinforced concrete.  
May 6, 7, and 8. Dr. R. THIESSEN, United States Bureau of Mines, Washington, D. C.: Microscopic examination of coal.

*Electrical Engineering Society*

- Mar. 12. Mr. OTIS L. JOHNSON, Benjamin Electric Company, Chicago: Illumination.  
 Mar. 26. Mr. W. E. WICKENDEN, Western Electric Company, New York, New York:  
 Forging the links of fellowship.

*Student Branch, American Society of Mechanical Engineers*

- Mar. 9. Mr. W. L. ABBOTT, Chief Engineer, Commonwealth Edison Company, Chicago: The art of burning coal.  
 May 7. Mr. T. A. MARSH, Green Engineering Company, Chicago: A boiler night.

*Tau Beta Pi*

- Mar. 24. Professor L. P. BRECKENRIDGE, Head of the Department of Mechanical Engineering, Yale University, New Haven, Connecticut: The hydro-electrical development of the country in the future.

*THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION**Lectures and Exercises*

- Mar. 3. J. N. VAN DER VRIES, Secretary, Central District, Chamber of Commerce of the United States of America, Chicago: The organization and operation of trade associations.  
 Mar. 10. H. H. MERRICK, President, Great Lakes Trust Co., Chicago: Some aspects of the present industrial situation.  
 Mar. 18. OMAR H. WRIGHT, State Director of Finance, Springfield: State budgetary matters under the new law.  
 Apr. 15. R. E. HELMAN, Dean of the School of Commerce, Northwestern University, Chicago: Cooperation among competitors.  
 Nov. 17. EDWARD C. GORE, C.P.A., Barrow, Wade and Guthrie, Accountants and Auditors, Chicago: What is expected of the Accountant.  
 Nov. 20. A. W. DOUGLAS, Vice-President, Simmons Hardware Company, St. Louis, Mo.: What the business world expects of the college man by way of preparation.

*Short Courses and Conventions*

- Feb. 23-26. SHORT COURSE FOR RETAIL MERCHANTS.  
 May 5. Illinois Chamber of Commerce, Conference on University Business Education.

*THE COLLEGE OF AGRICULTURE**AGRICULTURAL EXTENSION*

- Jan. 21. Mr. J. V. STEVENSON, Streator: Things worth while to a fellow in college.  
 Apr. 14. Mr. F. M. SIMPSON, Denver, Colo: The marketing of live stock.  
 Apr. 21. Rt. Rev. ROGER ISRAEL, Bishop of Erie, Penn.: Opportunities.  
 Apr. 28. Mr. A. H. LORENTZ, Pretoria, So. Africa: Agricultural conditions in the Transvaal.  
 May 12. Capt. J. M. MACKENDRICK, Urbana: A challenge to service.  
 Oct. 11. Rev. WALTER AIKEN, Urbana: Colored spectacles.  
 Oct. 13. Capt. J. M. MACKENDRICK, Urbana: War experiences.  
 Oct. 18. Mr. A. J. BILL, Bloomington: Importance of rhetoric to agricultural students.  
 Oct. 20. Mr. J. W. WATSON, Champaign: Things I should have done while in college.  
 Nov. 13. AGRICULTURAL OPEN HOUSE.

SPECIAL LECTURES BEFORE CONFERENCE OF HOME ADVISERS

- Oct. 14. Miss MAMIE BUNCH: The home bureau organization.
- Oct. 14. Professor ISABEL BEVIER: Citizenship for women.
- Oct. 14. Professor W. F. HANDSCHIN: Pedagogy of extension teaching.
- Oct. 14. Miss MABEL WILKERSON: Clothing programs.
- Oct. 14. Miss HARRIET PHILLIPS: Garment clubs for girls.
- Oct. 14. Miss NELLE MCCLURG: Household accounts.
- Oct. 16. Dr. R. E. HIERONYMUS: Civic organizations.
- Oct. 16. Miss FANNIE BROOKS: Rural health.
- Oct. 16. Miss NINA CRIGLER: The food calendar and how to use it.
- Oct. 16. Miss MARY PACK: Teaching food facts through the school lunch.
- Oct. 16. Miss FERNE HARRIS: The home bureau budget.
- Oct. 16. Miss J. LITA BANE: A goal for home bureau work.

LECTURES AND EXERCISES

ANIMAL HUSBANDRY DEPARTMENT

- Jan. 28. Dr. C. H. STANGE, Dean of Veterinary School, Iowa State College: Veterinary reconstruction problems.
- Jan. 29. Dr. R. A. CRAIG, Purdue University: Discussion.
- Jan. 30. Major GEO. A. LYTLE, Veterinary Inspector, Commissary Department, U. S. Army: Meat inspection in the Army.
- Jan. 30. Dr. JOHN ADAMS, Professor of Surgery, School of Veterinary Medicine, University of Pennsylvania: The animal engineer of the future.
- Jan. 31. Professor SADA O YOSHIDA, Pathological department, Osaka Medical College, Japan: The life history of the Ascarid Larvae in the body of the host.
- May 1. W. J. CARMICHAEL, Secretary of the National Swine Growers' Association: Pork production.
- May 15. ELLIS MCFARLAND, Assistant Secretary of the Percheron Society of America: The draft horse situation.

HORTICULTURE

*Lectures and Exercises*

- Jan. 7. TOM BENDELOW, Chicago: Golf Courses.
- Jan. 14. T. GLENN PHILLIPS, Landscape Architect of Detroit, Mich.: City planning in Detroit.
- Feb. 23. THEODORE WIRTH, Supt. of Parks, Minneapolis, Minn.: Minneapolis parks.
- Mar. 18. F. W. VON OVEN, Nurseryman, Naperville: The business of running a nursery.
- Mar. 26. WARREN H. MANNING, N. Billerica, Mass.: National parks and highways.

*Exhibition*

- Nov. 7-14. CHRYSANTHEMUM SHOW.

LECTURES AND EXERCISES DURING THE CORNGROWERS' AND STOCKMEN'S CONVENTION  
January 19-30.

- Honorable H. I. GREEN, Urbana: The constitutional convention.
- Mr. A. R. KROH, Truck Sales Managers' Association, Akron, Ohio: Truck transportation on the farm. Moving pictures.
- Honorable FRANCIS G. BLAIR, State Superintendent of Public Instruction: Training in American ideals.

- Mr. J. R. HOLBERT, Bloomington: Some recent facts about root rot of corn and scab of wheat.
- Mr. FRED D. RUGG, Champaign: Liquid air—lecture and demonstration.
- Honorable HENRY M. DUNLAP, Savoy: A trip through the agricultural and horticultural sections of the West.
- Mr. J. V. STEVENSON, Streator: The correlating of agricultural education with the business of farming.
- Mr. HERMAN W. DANFORTH, President, Federal Land Bank, St. Louis, Mo.: The Federal Land Bank.
- Mr. HARVEY J. SCONCE, President Illinois Agricultural Association, Sidell: Some ideals in improving farm life. Illustrated.
- Honorable CHARLES H. BROUGH, Governor of State of Arkansas: America's conquest of the world.
- Mr. CLIFFORD OLDER, Chief Engineer, Division of Highways, Springfield: Highway improvements for Illinois.
- Honorable CHARLES H. BROUGH, Governor of State of Arkansas: The farmer and stockman as bulwarks against social unrest.

#### MEMORIAL EXERCISES FOR CYRIL GEORGE HOPKINS—January 22, 1920

- THE EARLIER YEARS OF DOCTOR HOPKINS'S SCIENTIFIC CAREER by Dr. L. H. SMITH, Professor of Plant Breeding.
- THE SCIENTIFIC BASIS OF THE ILLINOIS SYSTEM OF PERMANENT AGRICULTURE by Dr. ROBERT STEWART, Professor of Soil Fertility.
- THE PRACTICAL SIGNIFICANCE OF THE ILLINOIS SYSTEM OF PERMANENT AGRICULTURE by Mr. RALPH ALLEN, Delavan, Member of University Soils Advisory Committee.
- DOCTOR HOPKINS, THE TRUE TEACHER OF THE SCIENCE OF AGRICULTURE by Brother LEO Notre Dame, Ind.
- THE CULMINATING YEAR IN THE LIFE OF DOCTOR HOPKINS by Dr. GEORGE BOUYOUCOS, Michigan Agricultural College (Captain in American Red Cross Commission to Greece).
- A PERMANENT MEMORIAL by Mr. FRANK I. MANN, Gilman, Member of University Soils Advisory Committee.
- PROFESSOR HOPKINS, THE PUBLIC SERVANT, by Dr. DAVID KINLEY, Acting President.
- THE SIGNIFICANCE OF DOCTOR HOPKINS'S CONTRIBUTION TO AGRICULTURE by Dr. E. W. ALLEN, Chief, Office of Experiment Stations, United States Department of Agriculture.
- DOCTOR HOPKINS, THE MAN, by Dean EUGENE DAVENPORT.

#### THE SUMMER SESSION

A series of three lectures by Rabbi H. J. WOLF:

- July 20. Prophetic teachings about the rich.
- July 21. Prophetic teachings about the poor.
- July 22. The social significance of the kingdom of God.

# ASSOCIATIONS, SOCIETIES, AND CLUBS

---

## GENERAL ORGANIZATIONS

### The Alumni Association

The Alumni Association is the general organization of the alumni of the University. The Association maintains an office at the University and publishes a fortnightly periodical, the *Alumni Quarterly and Fortnightly Notes*; in this office is compiled the alumni directory, known as *The Alumni Record*, successive editions of which have been published approximately every five years since 1906. The staff is now at work on a volume for the alumni of the Colleges of Medicine and Dentistry and School of Pharmacy, at Chicago. These Chicago department graduates have alumni associations of their own, as has the Library School. Sixty-two local alumni associations have been organized: twenty-three in Illinois; three in Missouri, Ohio, Wisconsin, and Texas; two each in California, the District of Columbia, Indiana, North Dakota, and New York; one each in Colorado, Idaho, Iowa, Massachusetts, Michigan, Minnesota, Oregon, Pennsylvania, Tennessee, Utah, Washington, West Virginia, Brazil, India, and Japan. Regular University of Illinois alumni luncheons are held in fifteen cities.

### University of Illinois Union

The University of Illinois Union is an association of the men of the University, having for its general object the promotion of college spirit and good fellowship. All male students are eligible to active membership in the Union; alumni and members of the faculty may become associate members.

### The Honor Commission

The Honor System was adopted by a student referendum vote January 3rd, 1919, and was approved by the University Senate. Under this system all examinations are given entirely without faculty supervision, each student certifying on his paper that he has neither given nor received aid during the examination. Freshmen are also required to write the same honor pledge on their themes. There are two honor commissions, one for men and one for women, each made up of seven students, and violations of the Honor System are reported to these commissions for trial. After trying a case the findings of the honor commission are subject to final approval by the Council of Administration.

### The Student Council

The Student Council, consisting of eight seniors and seven juniors, elected annually, has charge of certain undergraduate student activities.

### The Woman's League

The Woman's League was organized to further the spirit of unity among the women of the University and to be a medium for the stimulation and maintenance of high standards. All women students are eligible to active membership in the League; all women members of the faculty and of the Graduate School are eligible to associate membership.

### Students' Hospital Fund

The Students' Mutual Benefit Hospital Fund provides ward hospital care for members who become ill and need such care for a period not to exceed four weeks during any semester. Members pay \$2.00 a semester. The Dean of Men is the Trustee of the Fund.

**Literary Societies**

The ADELPHIC, IONIAN, and PHILOMATHEAN societies for men, and the ALETHENAI, ATHENIAN, ILLIOLA, and GREGORIAN societies for women, meet weekly, on Fridays, and the JAMESONIAN Society (for women) on Tuesdays, throughout term time.

**The Christian Associations**

Membership in the Young Men's Christian Association is based on willingness to serve on some one of the eighteen committees. Every man in the University is eligible for membership. The "Y" Hut is open to all students. Newspapers, magazines, books, victrola, checkers, check room, free typewriter and stationery are at their service. The spacious lounging room makes for pleasant recreation and new friendships. Religious meetings are held on Sunday evening. Bible Discussion Groups are promoted. An extensive community program is conducted. Friendly relations with the large group of foreign students is promoted. Sunday afternoon musical programs as well as many other social gatherings are held in the Hut. An employment bureau managed by the Association endeavors to help students find work.

The Y. W. C. A. is housed in the Hannah McKinley building. Dormitory space is provided for fifty young women. There are parlors on the first floor for use of the women rooming in the house, a large assembly room, pianos, organization rooms, and correspondence tables. A modern dining room is located in the basement. There are 650 members. An employment bureau is maintained at the Y. W. C. A. to help University women to find employment.

At the opening of the college year the Associations endeavor to help new students to find desirable rooming and boarding places. A copy of the Students' Handbook, giving information about Urbana and Champaign, the University, and the various college organizations and activities, will be sent free to prospective students. For this handbook or for further information address the general secretary of either Association.

**HONORARY SOCIETIES**

The honorary societies or fraternities named below are private intercollegiate organizations of students and graduates, having for their primary purpose the recognition and encouragement of excellence in scholarship in various departments of study. Election is in all cases made by the societies themselves in accordance with their own rules. The University assumes no responsibility for their elections.

**Phi Beta Kappa**

Each year a certain number of the ranking students of the senior class in the College of Liberal Arts and Sciences are elected to membership in the Phi Beta Kappa Society. The number is ordinarily limited to one-fifth of the total membership of the graduating class.

*The Phi Beta Kappa Prize*

Gamma of Illinois chapter of Phi Beta Kappa offers annually a prize of \$25 to that member of Gamma Chapter who at his graduation from the College of Liberal Arts and Sciences gives evidence of greatest promise as a scholar in the domain of liberal arts. The award is based on the following considerations: (a) Class room records; (b) other literary and scholarly activities in the University; (c) an essay, which may be a senior thesis or a term paper. At the discretion of the committee in charge, the award may be withheld if none of the essays appears worthy of the prize. Essays submitted in competition and all correspondence with reference to this prize should be addressed to the Secretary of the Phi Beta



Kappa Society, University of Illinois. The committee will not be limited in its award to those who have submitted papers specifically for this purpose or have otherwise given formal notice of candidacy. Special consideration will be given to theses deposited in the College office by candidates for honors in the various departments.

### **Sigma Xi**

Members of the senior class who give "promise of marked ability" in scientific investigations are eligible to membership in the Sigma Xi Society, which was founded to encourage research in pure and applied science.

### **Beta Gamma Sigma**

Upper classmen in the College of Commerce of high scholastic standing and promise of future business ability are eligible to election in the Beta Gamma Sigma Society.

### **Other Honorary and Professional Societies**

Alpha Alpha Alpha (Pre-legal); Alpha Chi Sigma (Chemistry); Alpha Kappa Psi (Commerce); Alpha Rho Chi (Architecture); Alpha Zeta (Agriculture); Beta Alpha Psi (Accounting); Delta Sigma Rho (Oratory); Eta Kappa Nu (Electrical Engineering); Farm House (Agriculture); Gamma Alpha (Graduate Scientific); Gamma Epsilon Pi (Women's Commercial); Gamma Pi Alpha (Women's Agricultural); Iota Sigma Pi (Chemistry); Kappa Delta Pi (Education); Keramos (Ceramic Engineering); Lambda Xi (Floriculture); Ma-Wan-Da (Men's Senior Society); Mu Kappa Alpha (Musical); Omega Beta Pi (Pre-medical); Omicron Nu (Home Economics); Mortarboard (Women's Senior Society); Order of the Coif (Law); Phi Alpha Delta (Law); Phi Delta Kappa (Educational); Phi Delta Phi (Law); Phi Lambda Upsilon (Chemistry); Pi Delta Epsilon (Inter-publication); Pi Tau Sigma (Mechanical Engineering); Psi Xi (Psychology); Sachem (Men's Junior Society); Scabbard and Blade (Military); Scarab (Architecture); Shi Ai (Sophomore Inter-sorority); Sigma Tau (Engineering); Tau Beta Pi (Engineering); Theta Sigma Phi (Journalism); Theta Tau (Engineering); Triangle (Civil Engineering); Tribe of Illini ("I" Men); U. L. A. S. (Landscape Architecture); Woman's Landscape Gardening Association; Sigma Delta Chi (Journalism); Sigma Delta Phi (Women's Public Speaking).

### **CLUBS AUXILIARY TO COURSES OF STUDY**

In addition to the associations and societies of a general character described above, there are in each college a number of societies and clubs devoted to outside work of a literary, scientific, or technical nature auxiliary to the work of various departments of that college. Among these are the following:

In the COLLEGE OF LIBERAL ARTS AND SCIENCES: The Botanical Club, The Celtic Club, *le Cercle Francais*, *el Circulo Espanol*, the Chemical Club, the University of Illinois Section of the American Chemical Society, the Classical Club, *der Deutsche Verein*, the English Journal Club, the Geological Journal Club, Hexapœcia, the History Club, the Mathematical Club, the Pen and Brush Club, the Philological Club, the Political Science Club, Psychology Club, the Romance Journal Club, the Scandinavian Club, the Zoological Club.

In the COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION: The Accountancy Club, the Commercial Club, the Foreign Trade Club, the Economics Club, the Junior Chamber of Commerce.

In the COLLEGE OF ENGINEERING: The Architectural Club, the Student Branch of the American Ceramic Society, the Civil Engineering Society, the Electrical Engineering Society, the Engineering Council, the Mining Club, the Student Branch of the American

Society of Mechanical Engineers, the Student Branch of the American Association of Engineers, the Physics Colloquium, the Railway Club.

In the COLLEGE OF AGRICULTURE: The Agricultural Club, the Horticultural Club, the Household Science Club, the Landscape Gardeners' Club, the Hoof and Horn Club, the Soils Research Club, the Floricultural Club.

In the SCHOOL OF MUSIC: The University Choral and Orchestral Society, the University Military Band, the University Women's Glee Club.

In the LIBRARY SCHOOL: The Library Club.

In the LAW SCHOOL: The Law Club.

### FRATERNITIES, SOCIETIES, AND CLUBS

*National Fraternities.*—Acacia; Alpha Chi Rho; Alpha Delta Phi; Alpha Gamma Rho; Alpha Kappa Psi; Alpha Phi Alpha; Alpha Sigma Phi; Alpha Tau Omega; Beta Delta Sigma; Beta Theta Pi; Chi Phi; Chi Psi; Delta Kappa Epsilon; Delta Phi; Delta Sigma Phi; Delta Tau Delta; Delta Upsilon; Kappa Alpha Psi; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Gamma Delta; Phi Kappa; Phi Kappa Psi; Phi Kappa Sigma; Phi Kappa Tau; Phi Sigma Kappa; Pi Kappa Alpha; Psi Upsilon; Sigma Alpha Epsilon; Sigma Alpha Mu; Sigma Phi Epsilon; Sigma Phi Sigma; Sigma Chi; Sigma Nu; Sigma Pi; Tau Kappa Epsilon; Theta Chi; Theta Delta Chi; Zeta Beta Tau; Zeta Psi.

*Sororities.*—Achoth; Alpha Chi Omega; Alpha Delta Pi; Alpha Epsilon Phi; Alpha Gamma Delta; Alpha Omicron Pi; Alpha Xi Delta; Chi Omega; Delta Delta Delta; Delta Gamma; Gamma Phi Beta; Kappa Alpha Theta; Kappa Kappa Gamma; Pi Beta Phi; Sigma Kappa; Theta Phi Alpha.

*Local Clubs.*—Alpha Epsilon Pi; Anubis; Bushnell Guild; Chi Beta; Concordia; Delta Pi; Gamma Sigma Kappa; Ilus; Kappa Pi; Pi Pi Rho; Phi Epsilon Pi; Tau Delta Tau; Zeus.

*Interfraternity Organizations.*—Men's Pan Hellenic Council; Girls' Pan Hellenic Association; Skull and Crescent; Yo Ma; Phi Delta Psi; Ku Klux Klan.

### OTHER ORGANIZATIONS

Other student societies include the following.—Bahai Group; Chinese Students' Club; Comitatus (Democratic); Christian Science Society; Cosmopolitan Club (Men's); Cosmopolitan Club (Women's); Japanese Students' Club; Latin American Club; Republican Club (Republican); Mask and Bauble (dramatic); Pierrots (vaudeville); Scribbler's Club; Menorah; Country Life Club; Dames' Club; Illinois Union; Woman's League.

# UNDERGRADUATE SCHOLARSHIPS

---

(For circulars giving more detailed information concerning scholarships, apply to the Registrar of the University.)

## COUNTY SCHOLARSHIPS

A law passed by the General Assembly of the State of Illinois at the session of 1905, embodied in the General School Law of 1909, and amended in 1917 and 1919, provides that one scholarship may be awarded annually to each county of the State. The holder thereof must be at least sixteen years of age, and a resident of the county to which he is accredited. No student who has attended the University of Illinois is eligible for one of these scholarships. The holder of a scholarship is relieved of payment of the matriculation and incidental fees for four years in any department of the University.

A competitive examination, under the direction of the President of the University, and on such branches of study as the President may select, is held on the first Saturday in June of each year, at the county court house in each county by the County Superintendent of Schools. Questions for the examinations are furnished in advance to the County Superintendents.

The successful candidates in the examinations must then meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class, and must register the following September.

In case the scholarship in any county is not claimed by a resident of that county, the President of the University may fill the same by assigning to that county from some other county the student found to possess the next highest qualifications.

A student holding a scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such leave of absence, and may be allowed an extension of his scholarship for not more than two years (making not more than six years in all from the beginning of the scholarship). Such extension will not be granted unless the student has been in attendance at the University for at least one full semester, nor unless the student's average grade during the period of his attendance has been at least C, exclusive of grades in military science and physical education.

## GENERAL ASSEMBLY SCHOLARSHIPS

The same act by which the county scholarships described above were established also provides that each member of the General Assembly may nominate annually one eligible person from his district for a scholarship in the University, granting the same privileges as the county scholarships.

A member of the General Assembly who wishes to nominate a candidate for a scholarship should file the name and address of his nominee as early in the spring as practicable and not later than June 1, with the President of the University.

The nominee, if a graduate of a school accredited by the University, shall be admitted to the University on the same conditions as to educational qualifications as are graduates of such accredited high schools not so appointed to scholarships, and if any such candidate is not a graduate of a school accredited by the University, he shall present himself for examination—the same that is given to competitors for the county scholarships on the first

Saturday in June, under the County Superintendent. The nominee must further (1) meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class; and (2) register in the University the following September.

If a nominee fails to make a passing grade (70) in the scholarship examination he may not receive the scholarship. In this case notice will be sent to the member of the General Assembly who made the nomination, who is then entitled to nominate a second candidate, before the first registration day in September. This second candidate is subject to all the requirements stated above; the scholarship examination will be given him at the University on the Wednesday preceding the fall registration days (in 1921, September 14).

A General Assembly scholarship may be extended under the same conditions as a county scholarship.

### SCHOLARSHIPS IN CERAMIC ENGINEERING

The University offers annually, to each county in the State, one scholarship, awarded on the nomination of the Illinois Clay Workers' Association, to applicants who intend to follow the curriculum in Ceramic Engineering. These scholarships are good for four years and relieve the student from the payment of the matriculation fee (\$10, payable once, on entrance), and the incidental fee (\$50 a year).

The candidate must be at least sixteen years of age, must be a resident of the county for which he is nominated, and must meet *in full, before entering*, by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class.

Acceptable candidates, residents of counties for which appointments have been made, not exceeding five in number from any one county, may be assigned to counties for which no recommendations are made. The first nominee from each county, if duly qualified, is awarded the scholarship at the time of registration. Other nominees must pay the regular fees on registration. Assignments to counties for which there are no nominees registered are made on or about October 15, at which time the nominees so assigned to counties other than their own receive rebates of the full amount to the matriculation and incidental fees paid.

### SCHOLARSHIPS IN AGRICULTURE AND HOME ECONOMICS

The University offers every year to each county in the State, except Cook and Lake, and to each of the first ten congressional districts, one scholarship for prospective students of agriculture in the College of Agriculture and one for prospective students of home economics in the College of Liberal Arts and Sciences or the College of Agriculture.

Appointments to scholarships in agriculture are made by the Trustees of the University on the recommendation of the Executive Committee of the Illinois Farmers' Institute; and to scholarships in Home Economics on the recommendation of the County Domestic Science Associations, or, for counties and districts in which there are no domestic science associations, on the recommendation of the Illinois Farmers' Institute. Persons who have already attended the University are not eligible, and no person will be assigned a scholarship unless his name is received by the Registrar of the University on or before the registration days of the semester with which the scholarship is to begin.

Candidates who are able to meet in full the requirements for admission to the freshman class are eligible for appointment at 16 years of age. Candidates who cannot meet these entrance requirements are eligible for appointment as special students (in the College of Agriculture) at 21 years of age.

Acceptable candidates, residents of counties or districts for which appointments have

been made, not exceeding five in number from any one county or district, may be assigned to counties or districts for which no recommendations are made. The first nominee from each county or district, if duly qualified, is awarded the scholarship at the time of registration. Other nominees must pay the regular fees on registration. Assignments to counties and districts for which there are no nominees registered are made on or about October 15, at which time the nominees so assigned to counties or districts other than their own receive rebates of the full amount of the matriculation and incidental fees paid.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee (\$10, payable once, on matriculation), the incidental fee (\$50 a year), and (in the case of special students) the tuition fee (\$15 a year). If, before a scholarship expires, the holder satisfies in full the requirements for admission to the freshman class of the college in which he or she is enrolled, the term of the scholarship may be extended to four years from the date of the student's matriculation.

### THOMAS J. SMITH SCHOLARSHIPS IN MUSIC

Captain Thomas J. Smith, of Champaign, Illinois, on September 17, 1914, conveyed to the Board of Trustees of the University certain farm lands in Champaign County, in consideration whereof the Board of Trustees agreed to erect a building for the music departments of the University, to be known as the Tina Weedon Smith Memorial Building, and further to grant annually in the University four free scholarships in the music departments "for young women who may seek a musical education but who are unable to pay the customary charges for instruction in music;" these scholarships to be assigned by way of preference to candidates from Champaign County, but in case there are no candidates from this county, to be assigned to young women from other counties in Illinois.

#### Regulations

(1) These scholarships shall be good for one year and shall exempt their holders during this period from matriculation, incidental, and music fees.

(2) A person who during her year of tenure of one of these scholarships shall make an average grade of B in all subjects shall be eligible for reappointment to it for a second year, and on the same basis may be reappointed for a third year and a fourth year.

(3) Each applicant for original appointment to one of these scholarships shall present a recommendation from the principal of a high school accredited to the University, certifying that she is a graduate of the high school, that she is a student of ability and promise, and that in the judgment of the principal of the high school she is unable to pay the customary charges for instruction in music.

(4) Each applicant for original appointment to one of these scholarships shall pass the University entrance examinations in the following subjects: English composition and rhetoric, 1 unit; algebra, 1 unit; Latin or French or German, 2 units; music, 2 units; these examinations to be taken with the regular fall entrance examinations of the University. The scholarships shall be awarded to the candidates from Champaign County who make the highest average grade in these four examinations. In case the number of successful candidates from Champaign County is fewer than the number of available scholarships, the remaining scholarships shall be awarded to the candidates from other counties in Illinois having the highest average grade in these four examinations. But no scholarship shall be awarded to any candidate who fails to make a passing grade (70) in any one of the four subjects of the examination.

(5) A candidate for original appointment must also satisfy in full the entrance requirements of the School of Music as stated in the University catalog, and must matriculate in that School for the fall semester immediately succeeding the examination.

(6) No person who has attended the University shall be eligible for appointment to these scholarships.

**JOSEPH T. RYERSON AND SON SCHOLARSHIPS****(Mechanical or Railway Engineering)**

The Joseph T. Ryerson and Son Scholarships of the American Railway Master Mechanics' Association, two in number, provide each for an annual stipend of \$300.00 to be paid to the beneficiary during the four years of his attendance in an engineering course at the University of Illinois, the University of Wisconsin, or Purdue University. Competitive examinations for these scholarships are conducted by the three universities in turn. The last appointment was made for September, 1919, and the examination was conducted in June, 1919, by the University of Illinois. Practical railroad experience is considered in the selection of candidates. Beneficiaries are expected to spend two years after graduation in the mechanical department of some railroad, and when financially able to do so to refund in convenient sums the amount of the scholarship for the benefit of others. For further information address Jos. W. Taylor, Secretary of the American Railway Master Mechanics' Association, 1112 Karpen Building, Chicago, or the registrar of any one of the three universities concerned.

**MILITARY SCHOLARSHIPS**

Students who have had three semesters of class instruction in military science and four semesters of drill practise are eligible for appointment as commissioned officers of the University Corps of Cadets. To those attaining this rank, special military scholarships, good for one year, and equal in value to the university incidental fees for the year, are open. The amount of these scholarships is paid the holders at the close of the academic year. Appointments in the Corps of Cadets are made on the recommendation of the Commandant of Cadets, confirmed by the Council of Administration.

**STATE MILITARY SCHOLARSHIPS**

By an amendment to the General School Law passed by the General Assembly of 1919 the following additional provision in regard to scholarships in the University of Illinois was inserted:

"SECTION 173a. Any person who served in the army, navy, or marine corps of United States, not including members of the Students' Army Training Corps, during the World War, who, at the time of entering upon such service, was a resident of this state, and who has been honorably discharged from such service, and who shall possess all necessary entrance requirements shall, upon application and proper proof, be awarded a University of Illinois scholarship.

"Any person who served as above stated, and who, at the time of entering upon such service, was a student at the University of Illinois, and who was honorably discharged from such service, shall, upon application and proper proof, be entitled to finish and complete his course of study at the University of Illinois without tuition and matriculation charges, but such person shall not be entitled to more than four years of gratuitous instruction. . . .

"The provisions of Section 173a, however, shall not apply to persons who were convicted by court martial of disobedience of orders, where such disobedience consisted of the refusal to perform military service on the ground of alleged religious or conscientious objections against war."

To be eligible for appointment to a Military Scholarship, a candidate must establish the following facts:

- (1) That he served in the army, the navy, or the marine corps of the United States, exclusive of the Student's Army Training Corps, during the World War.
- (2) That he was honorably discharged from such service.

(3) That he was not convicted by court-martial of disobedience of orders, consisting in the refusal to perform military service "on the ground of alleged religious or conscientious objections against war."

(4) That at the time of entering upon his service he was a resident of the State of Illinois or a student in the University of Illinois.

(5) That he possesses "all necessary entrance requirements;" i. e., that he can meet in full the requirements set forth in the Annual Register of the University for matriculation in the college or curriculum of the University which he proposes to enter. These requirements include graduation from an accredited high school, with fifteen units in acceptable subjects, including certain prescribed subjects. A candidate who is not a graduate of an accredited high school may meet the requirements by passing entrance examinations.

#### SHARPLES PRIZE SCHOLARSHIP

In May, 1920, the Sharples Separator Company offered to establish a scholarship of \$500 a year, in the College of Agriculture, to encourage women to take a more active part in the development of the dairy industry. This scholarship is awarded preferably to a senior or graduate woman student in agriculture, home economics, or dairy husbandry. It is desirable that the winner of the scholarship should elect special dairy subjects fitting her to enter the field of the dairy industry especially along educational lines. She should assure the committee of award that at least one year following graduation will be devoted to public service work in this field.

#### OTHER SCHOLARSHIPS

For *scholarships in the College of Law*, see page 211.

For *scholarships in the Summer Session*, see page 204.

For *fellowships and graduate scholarships*, see under Graduate School, page 181.

# BENEFICIARY AID

---

## EDWARD SNYDER DEPARTMENT OF STUDENTS' AID

In 1899, Edward Snyder, Professor of the German Language and Literature, *Emeritus*, gave the University the sum of \$12,000, to be lent to worthy students to enable them to finish their courses in the University.

This fund is available for junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars; the maximum loan is one hundred fifty dollars to a junior, and two hundred dollars to a senior or graduate student. Notes of hand are taken for the amount of the loans, with five per cent interest. The maximum time limit is for juniors three years and for seniors and graduates two years from the ensuing thirtieth of June.

Loans are made only to matriculated students who have attained at least the full rank of junior, who have been in residence at the University at least one year, who are at the time students in residence at the University, and who have declared their intention to graduate.

In recommending loans, preference is given to those students who are most advanced in their university work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in living. No distinction is made on account of sex or course of study. A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

## CLASS OF 1895 LOAN FUND

A fund of \$100 was established by the class of 1895, to be lent to needy and deserving students. According to the conditions of the gift, the sum of fifty dollars is to be lent annually, and the benefit of the fund is open only to students who, at the time of application, are members of the freshman class. The loan bears interest from the time the recipient leaves the University, and is due one-half in five years and one-half in six years after matriculation. The fund is in charge of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

## GRADUATE CLUB LOAN FUND

A fund of \$75 was established by the members of the Graduate Club in 1907-1908, for the benefit of graduate students. Its administration is in the hands of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

## WOMAN'S LEAGUE LOAN FUND

In December, 1910, the Woman's League of the University gave to the University the sum of \$409.44 to be known as the Woman's League Fund. This Fund is available for any woman matriculated in the University and is administered in the same way as the Snyder Loan Fund.



**WILLIAM B. M'KINLEY LOAN FUND**

In September, 1912, the Hon. William B. McKinley, of Champaign, Illinois, turned over to the University notes aggregating something more than \$12,000, which has been increased by the addition of interest at 5 per cent.; this amount as it is collected to be used as a loan fund for undergraduate men. In making the donation, Mr. McKinley stipulated that loans should be made to students on their personal notes, and that a preference should be shown in making these loans to upperclassmen. The notes draw interest at five per cent and become due two years after the student's graduation. Applications for loans should be made in writing and should be addressed to the Chairman of the Loan Fund Committee.

**HENRY STRONG LOAN FUND**

Mr. Gordon Strong, of Chicago, trustee of the Henry Strong Educational Fund, has offered the University annually since 1918-19 from \$200 to \$500 to be lent to self-supporting students of high scholastic attainments. The loan bears interest at four per cent and is payable within one year after graduation.

**MARGARET LANGE JAMES LOAN FUND**

In 1915 President Edmund J. James established the Margaret Lange James Loan Fund in memory of his wife. The original fund (\$5,000) given by President James has been supplemented by gifts from other persons, and the fund now amounts to about \$5,650.

Loans from this fund may be made to matriculated students, preferably women who have been in residence at the University at least one year, who have attained at least junior standing, and who are at the time of application students in residence, who have declared their intention to graduate. In recommending loans, only students of promise and good scholastic standing are considered, and, other things being equal, preference is given to those who are the farthest along in their University work. A loan is not recommended for any student who is believed to be financially or morally delinquent in any respect.

Applicants for loans are required to offer security other than their own signatures, and no member of the faculty or other person directly connected with the University is accepted as security for any student loan.

Loans bear interest until maturity at five per cent, payable semi-annually. The maximum time for which notes may be drawn is two years from the thirtieth day of June next following the student's regular time of graduation. Bank discount is charged for the time until the thirtieth day of June next following the date of the note. Interest at seven per cent is charged on all notes not paid at maturity.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

**WOMAN'S PHARMACY LOAN FUND**

In May, 1917, the Woman's Organization of the Chicago Retail Druggists' Association gave to the University the sum of \$115, to be used in establishing a loan fund in the School of Pharmacy. This fund is to be lent to a deserving woman student, preferably from Illinois, who is enrolled in the School. The loan is made on the recommendation of the Dean and is to be repaid within three years for a junior student and within two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

**LIBRARY SCHOOL FUND**

The University of Illinois Library School Association has voted to make all surplus funds in its treasury available for loan to senior library school students. Over \$500 is available for that purpose on the vote of the School faculty.

**FIRST FUND FOR OVERSEAS SOLDIERS**

A fund of \$1,000 was established in February, 1919, by an anonymous donor, for American soldiers and officers who have served in the military service in actual warfare in Europe or on the adjoining waters in 1917 and 1918, and for their descendants. Recent additions have increased the fund to \$2,000. This fund is to be available in their junior, senior, or post-graduate years to enable the applicants to remain and complete their work in any department of the University and in the first, second, third, or fourth year of any of the courses in agriculture in the University. The applicant is required to show papers of honorable discharge from the military service of the United States and one or more affidavits proving actual service in Europe, or proof, when such is the case, that he is a descendant of such soldier. The minimum loan is \$20 and the maximum total loan to any one person, \$200. The time limit is four years and the notes bear no interest. The fund is administered by the Loan Fund Committee.

**DORA E. BIDDLE LOAN FUND**

Mrs. Dora E. Biddle, of Macon, gave to the University, in 1919-20, \$2,000 to establish a loan fund for girls. The administration of the loans from this fund is in the hands of the Council Committee on Student Loan Funds, the conditions being the same as for the Margaret Lange James Loan Fund except that loans from this fund may be made to girls in the freshman class who have completed one semester's work satisfactorily.

# FEES AND EXPENSES

## GENERAL FEES

*All University fees are payable each semester in advance.*

**Colleges of Liberal Arts and Sciences, Commerce and Business Administration,  
Engineering, Agriculture, and Law, School of Music, and Library School**

<i>Matriculation Fee.</i> Each student not holding a scholarship, on satisfying the requirements for admission to the University, pays the matriculation fee of...	\$ 10.00
<i>Incidental Fee.</i> All students, excepting those holding scholarships, pay, each semester, an incidental fee of.....	25.00
<i>Tuition Fee.</i> Students conditioned on entrance requirements, and special students (except special students in agriculture or home economics holding scholarships), pay, each semester, a tuition fee of .....	7.50
<i>Laboratory Fees.</i> Each student working in laboratories, or in the drafting or engineering classes, is required to pay a fee varying from \$0.50 to \$12.50, to cover materials and apparatus used and breakages or damages.	.
<i>Uniform Deposit.</i> Students taking military are required to make a deposit of \$15.00 for uniform and equipment. This deposit is refunded to the student when his uniform and equipment are returned.	
<i>Listener's Fee.</i> Persons not connected with the University who attend classes as listeners, pay for each course, each semester.....	7.50
<i>Late Registration Fee.</i> A former student who enters after the Registration Days in either semester must pay a late registration fee of.....	1.00
<i>Change Fee.</i> For every change of study-list made later than the tenth day of instruction of either semester a fee of \$1.00 is charged, except that the total charge for the rearrangement authorized on any one change-slip shall not exceed \$2.00.....	1.00
<i>Special Examination Fee.</i> For any special examination, except examinations for advanced standing taken within sixty days after matriculation, the fee is ..	5.00
<i>Diploma Fee</i> .....	10.00

## School of Music

### *Special Fees*

In addition to the above general fees students registering in courses in applied music (voice, piano, violin, violoncello, organ, or band instruments) pay special music fees as follows (per semester):

For one lesson a week.....	\$ 3.00
For two lessons a week.....	5.00

*Practise Fees*

Piano for practise one hour a day each semester.....	3.00
Additional hours at the same rate.	
Organ for practise one hour a day for one semester (beginners).....	20.00
For one-half semester.....	10.00
Organ for practise one hour a day for one semester (advanced students).....	25.00
For one-half semester.....	15.00
For one-quarter semester .....	8.00

**College of Medicine**

	<i>First year</i>	<i>Second year</i>	<i>Third year</i>	<i>Fourth year</i>
Matriculation (paid but once) <sup>1</sup> .....	\$ 10.00	.....	.....	.....
Registration.....	5.00	\$ 5.00	\$ 5.00	\$ 5.00
Tuition.....	120.00	120.00	140.00	155.00
Laboratory.....	35.00	35.00	5.00	.....
Diploma.....	.....	.....	.....	10.00
Total.....	\$170.00	\$160.00	\$150.00	\$170.00

NOTE.—County Hospital ticket, \$5.00. Maternity Fee, Chicago Lying-in Hospital, \$15.00.

**College of Dentistry**

	<i>First year</i>	<i>Second year</i>	<i>Third year</i>	<i>Fourth year</i>
Matriculation (paid but once) <sup>1</sup> .....	\$ 10.00	.....	.....	.....
Registration (paid annually) .....	5.00	\$ 5.00	\$ 5.00	\$ 5.00
Tuition (paid annually).....	120.00	120.00	120.00	120.00
Locker (paid annually).....	2.00	2.00	2.00	2.00
Laboratory.....	34.00	36.00	50.00	55.00
Diploma.....	.....	.....	.....	10.00
Total.....	\$171.00	\$163.00	\$177.00	\$192.00

**School of Pharmacy**

Matriculation fee (paid but once).....	\$10.00
Registration fee (paid each year).....	5.00
Tuition fee, first and second years.....	60.00
Tuition fees, third year.....	95.00
Laboratory fee, each semester.....	15.00
Laboratory deposit, first and second years.....	10.00
Laboratory deposit, third year.....	15.00
Diploma fee.....	10.00

<sup>1</sup>Not payable if the student has previously matriculated in any other college of the University of Illinois.

## AVERAGE ANNUAL EXPENSES

The following are estimated average annual expenses for undergraduate students attending at Urbana, *exclusive* of clothing, railroad fare, and laboratory fees, if any. This includes only the immediate and fundamentally necessary expenses.

Books and Equipment.....	\$ 25.00 to \$ 75.00
Fees <sup>1</sup> .....	50.00 to 80.00 ✓
Room rent for one (two in a room).....	81.00 to 135.00
Board at Clubs, etc.....	260.00 to 360.00
Washing.....	30.00 to 45.00
Total.....	\$446.00 to \$695.00
Single rooms.....	108.00 to 135.00

Other necessary expenses will need to be taken into consideration. For all the necessary expenses of the year the average student is likely to need not less than \$600.00 to \$800.00. Most students spend more than this amount.

For information in regard to scholarships which cover the matriculation and incidental fee, see page 105.

## Board and Rooms

The University does not provide dormitories nor furnish board, except in the Woman's Residence Hall. The numerous rooming and boarding houses near the campus are to a certain extent under the supervision of the University. The Young Men's and Young Women's Christian Associations of the University will aid new students in securing rooms and board.

*Prospective women students and their parents are invited to correspond with the Dean of Women in regard to suitable places.*

## WOMAN'S RESIDENCE HALL

The Residence Hall for women has accommodations for ninety-eight women students. A flat rate is charged per year of thirty-eight weeks for room, laundry of sheets and pillow cases, and board in the Residence Hall as follows:

Single room.....	\$413.50
Double room, each occupant.....	\$356.50 and \$375.50
Double room (fourth floor), each occupant.....	309.00
Double room with private bath (two available), each occupant.....	413.50

Half the amount must be paid to the Bursar before the close of the registration period at the opening of the first semester, and the balance before the close of the registration period at the opening of the second semester.

Applications for rooms will be received by the Bursar after April 1 for the following college year. Applications are registered in the order of their receipt, but no application will be registered unless accompanied by a deposit of ten dollars, which will be credited on the payment for the second semester. After May 1 rooms are assigned in the order of application, the women living in the hall having preference. After all the rooms have been assigned the names of those who are unsuccessful will be put on a waiting list if the deposit has not been withdrawn, and as vacancies occur, assignments will be made to them in order.

Application cards and further information may be secured by writing to the Dean of Women.

<sup>1</sup>Students of music, special students, and conditioned students must make needed changes in the amount given for "semester fees."



PART II  
THE COLLEGES AND SCHOOLS





# THE COLLEGE OF LIBERAL ARTS AND SCIENCES

---

For a description of the *buildings* used by this College, see page 52; for *museums* and *collections* belonging to it (classical art and archeology, oriental, education, European culture, botany, entomology, geology, and zoology), see pages 62-64; for a summary of its *courses*, see page 67, for *clubs and societies* auxiliary to its curriculums see page 103; for *fees*, see page 113.

## PURPOSE

The purpose of the College of Liberal Arts and Sciences, in which were merged in 1913 the former College of Literature and Arts, and the College of Science, is, first, to secure to its students a liberal education including both the humanities and the sciences; second, to furnish especially arranged curriculums preparatory to later professional and technical studies by which good students may ordinarily obtain in six years both the degree in arts and a professional degree in law or medicine, or a technical degree in engineering; and, third, to provide certain highly specialized curriculums in applied science (particularly chemistry), journalism, and home economics. The degree of Bachelor of Arts is conferred on the completion of all these curriculums, except those in applied science, for which the degree of Bachelor of Science is given.

Under the modified elective system a student who desires to prepare for teaching may specialize to a considerable extent in the subject which he wishes to teach and may also find time for courses in education and related subjects of interest to teachers. Such students, should, as a rule, continue their preparation in the Graduate School.

Students who desire to devote a considerable part of their undergraduate study to specific preparation for some calling other than teaching may select courses in law, medicine, dentistry, journalism, or applied chemistry, or household administration, in accordance with curriculums given in detail in the following pages.

## ADMISSION

See the statement of the entrance requirements of the University, pages 69-76.

## SPECIAL STUDENTS

For a statement of the regulations of the University in regard to special students, see page 73.

It is the policy of this College to admit as special students only a select group of mature and serious persons who, tho unable to meet the formal requirements for entrance, are substantially prepared for work of college grade, and have a specific and clearly defined purpose in their study.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

A. *University Requirements*.—Each candidate must meet the general university requirements with respect to registration and residence, and must also secure credit in approved courses amounting to one hundred thirty hours, an hour being one class period a week for one semester. Each class period presupposes two hours' preparation by the student, or the equivalent in the laboratory or drawing room.

B. *Prescribed Subjects*.—Rhetoric 1-2; Physical Education 1-2 and Hygiene 1 for men; Physical Education 7a-7b, 8a-8b and Hygiene 2 for women; Military Science 1, 2, 3, 4, for men.

C. *Group Requirements*.—Every candidate must offer the minimum of work specified in each of the following groups:

I. *English*.—The offering in this group must include at least a one-semester course in literature.

II. *Foreign Languages and Literatures* (exclusive of courses in translation).

If a student has offered but two units of a foreign language for entrance to the University, he must pursue the study of foreign language through two year courses or the equivalent. If he has offered for entrance three or more units of foreign language, he must continue the study of foreign language through one year of his college course.

*Note*: Candidates for the degree who have not offered Greek or Latin or French or German for entrance must offer one of these languages for graduation.

III. *History, Political and Social Science*.—History, economics, political science, sociology: 8 hours.

IV. *Mathematics and Physical Science*.—Mathematics, astronomy (courses with college mathematics as prerequisites), physics, chemistry: a minimum of 5 hours, with a minimum total of 15 hours in Groups IV and V, of which at least 5 shall be in courses requiring not less than 4 laboratory hours per week.

V. Botany, including bacteriology, entomology, geology, physiology, zoology: a minimum of 5 hours, with a minimum total of 15 hours in Groups IV and V, of which at least 5 shall be in courses requiring not less than 4 laboratory hours per week.

VI. Education, philosophy, psychology: 6 hours, of which 3 shall be in philosophy or psychology.

D. *Major Subjects*.—Each candidate must select some subject as his major. A major consists of courses amounting to 20 hours chosen from among those designated by a department and approved by the faculty of the college. Such courses are to be exclusive of those elementary or beginning courses which are open to freshmen, and inclusive of some distinctly advanced work. At least five hours of the work accepted for a major must have been done in residence at this University and included within the maximum credits allowed in any one division. See the statements regarding majors under departmental announcements in Part III.

The subjects at present recognized as majors in this college are: Astronomy, bacteriology, botany, chemistry, classics, education, economics, English, entomology, French, geology, German, Greek, history, home economics, Latin, mathematics, philosophy, physiology, physics, political science, psychology, Romance languages, sociology, Spanish, zoology.

E. *Minor Subjects*.—Each candidate must offer, in addition to his major, a minor of 20 hours in one or more allied subjects designated by the major department and approved by the faculty of the college. *At least 8 hours must be offered in one subject.* See the statements regarding minors under departmental announcements in Part III.

F. *Elective Subjects*.—

1. Not more than 40 hours in any one subject may be counted for graduation, except: (a) in special curriculums approved by the faculty of the college; (b) when a student is writing a thesis, he may count, in addition to the 40 hours, the hours of the course in which he does his thesis work; (c) in the department of English a student may take 40 hours in addition to Rhetoric 1-2.

*Note:* The total credit in art and design is limited to 20 hours.

2. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours for one semester, he must stay in the class during the semester in order to get any credit at all. *In order to secure any credit in a beginning course in a foreign language, a full year's work must be completed.*

3. A limited amount of credit toward the degree of Bachelor of Arts is ordinarily given for courses offered in other colleges and schools of this University, as follows:

### **Electives in other Colleges and Schools**

#### *College of Agriculture:*

Agricultural Extension 1 (High School Agriculture).

Agronomy 9 (Soil Physics), 11 (Soil Biology), 12 (Soil Fertility), 22 (Plant Breeding).

Animal Husbandry 7 and 31 (Animal Nutrition), 30 (Genetics).

Dairy Husbandry 10 (General Dairy Bacteriology).

Horticulture 9 (Forestry), 36 (History of Landscape Gardening), 37a (Civic Design).

The total credit allowed in agricultural courses may not exceed 14 hours except to students who do major work in entomology, who may be allowed 20 hours to be chosen from the above courses with the addition of Agronomy 7 and 25, and Horticulture 1a, 1b, 2, 3, 6 and 7.

#### *College of Commerce and Business Administration.*

Accountancy 1a-1b (Principles of Accounting), 13 (Municipal Accounting).

Business Organization 1 (Business Organization), 9 (Commercial and Civic Organizations).

Business Law 1a-1b (Commercial Law,—no credit given to students in the combined arts-law curriculum).

Economics, all courses except 9, 32, 34.

Transportation 1 (U. S. Transportation System), 2 (Transportation Policy).

The total credit allowed for courses in Commerce may not exceed 40 hours.

#### *College of Engineering:*

Architecture 13, 14, 15, 16 (History of Architecture), 31, 32 (Architectural Drawing).

Civil Engineering 27 and 28 (Surveying), 94 (Highway Administration).

Drawing, General Engineering 1 (Elements of Drafting); 2 (Descriptive Geometry).

Electrical Engineering 4 and 64 or 8 and 68.

Mechanical Engineering 11, 13 (Thermodynamics), 30 (Mechanics of Machinery).

Mechanics, Theoretical and Applied, all courses.

The total credit allowed in engineering courses may not exceed 24 hours.

#### *College of Law:*

A student in the College of Liberal Arts and Sciences, who earns at least 30 hours in this college, may take and count towards the degree of Bachelor of Arts not to exceed 30 hours of work in the College of Law, provided that not less than two courses amounting to at least five hours are taken each semester, under the advice of the Dean of the College of Law as to the courses to be taken. Courses in law may not be taken before the junior year by students enrolled in this college.

Law 14 (Carriers), 24 (Municipal Corporations), 28 (Insurance), and 34 (Public Utilities) are open to students of this college offering political science or economics as a major subject who have had a previous course in law or political science involving the study of cases.

*Library School:*

Library Science 2a-2b or 12 (Reference), 7 (History of Libraries), 9 (History of Books), 13a, 42 (Public Documents).

*School of Music:*

The total credit allowed for courses in music may not exceed 16 hours. At least one-half the credit must be taken in courses in the history and theory of music (1-14 inclusive). Credit may be allowed in practical music for courses preceded by Music 3 and 4 and exclusive of courses open to freshmen to an amount not to exceed one-half of the total allowed any student. No credit will be allowed for courses in public school music.

*Physical Education.*

Not to exceed 5 semester hours for men and 7 semester hours for women.

*Military Science and Tactics:*

Military Science not to exceed 8 semester hours.

G. *Bachelor's Thesis:* A bachelor's thesis is not generally required in this college. Students of high standing are, however, encouraged to write theses in connection with their major studies. Credit toward the degree is given for thesis work only as part of the work in some course for which the student is registered. The presentation of a thesis is required of all candidates for the honor degree. See page 92.

H. *Optional Degree of Bachelor of Science:* Students who do major work in one of the subjects in Groups IV or V, or in home economics, on petition to and recommendation of the faculty may be graduated with the degree of Bachelor of Science instead of Bachelor of Arts.

**ARRANGEMENT OF COURSES****First Year***Subjects Prescribed for Freshmen*

The following subjects must be taken during the freshman year: *Rhetoric* 1-2<sup>1</sup>, three hours each semester; *Military* 1a, 1b, one hour first semester, and *Military* 2a, 2b, one hour second semester (for men); *Physical Education* (Physical Education 1-2 and Hygiene 1, for men, Physical Education 7a-7b and Hygiene 2 for women).

*Freshman Electives*

The following subjects are open to freshmen who have the announced prerequisites. The total amount including military and physical training taken up any semester is limited to eighteen hours and should not be less than fifteen.

**FIRST SEMESTER**

I. English 10<sup>2</sup> (3)<sup>3</sup>; Rhetoric 1<sup>1</sup> (3), or 2 (3).

II. French 1a (4) or 1b (4) or 2a (4); German 1 (4) or 2 (4) or 4 (4) or 5 (4); Greek 1a (4) or 3 (3); Latin 1a (4) or 2a (4) or 6 (4); Spanish 1a (4) or 1b (4) or 2a (4) or 3a (3); Italian 1a (4).

<sup>1</sup>See special examination in Rhetoric 1, page 76.

<sup>2</sup>English 10-11 is open only to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 318.

<sup>3</sup>The figure immediately following the subject is the number of the course (see page 253), the figure in parenthesis indicates the number of credit hours to be secured in the course of each semester.

III. Economics 26 (3); History 1a (4) or 2a (3).

IV. Mathematics 2<sup>1</sup> (3) and 4<sup>1</sup> (2) [prerequisite: entrance algebra, 1½ units and plane geometry, 1 unit], 3 (5); Astronomy 1 (3) [prerequisite: trigonometry]; Chemistry 1<sup>1</sup> (5) or 1a<sup>2</sup> (3); Physics 7a<sup>2</sup> and 8a<sup>2</sup> (5).

V. Botany 1<sup>1</sup> (5); Entomology 1a<sup>1</sup> (3), 1b (3), 3a (2), 4 (3); Geology 1<sup>1</sup> (5), Geography 1 (5), 14 (3); Zoology 1<sup>1</sup> (5).

Home Economics 2 (2) or 7 (2).

Library Science 12<sup>3</sup> (2).

Art and Design 1<sup>3</sup> (3).

## SECOND SEMESTER

I. English 11<sup>4</sup> (3);<sup>1</sup> Rhetoric 1 (3) or 2 (3).

II. French 1a (4) or 1b (4) or 2b (4); German 1 (4) or 3 (4) or 4 (4) or 5 (4) or 6 (4) or 7 (3); Greek 1b (4), or 4 (4), Latin 1b (4), or 2b (4); Spanish 1a (4) or 1b (4) or 2b (4) or 3b (3); Italian 1b (4).

III. Economics 22 (3) and 27 (3); History 1b (4) or 2b (3).

IV. Mathematics 2 (3) and 4 (2) [prerequisite: entrance algebra, 1½ units, and plane geometry, 1 unit], 6 (5); Astronomy 2 (3); Chemistry 1<sup>1</sup> (5) or 1a<sup>1</sup> (3) or 2a (5); Physics 7b and 8b (5).

V. Botany 1<sup>1</sup> (5), 2b (5), 3a (3), 4 (3), 4a (3), 23 (3), 27b (3); Entomology 1a (3), 1b (3), 3b (2), 4 (3); Geology 1 (5), 1a (5), 92 (2), Geography 1 (5), 2 (5), 3 (5), 22 (3), 35 (5); Zoology 1<sup>1</sup> (5), 2 (5), or 16 (2).

Home Economics 1<sup>5</sup> (3) or 7 (2).

Library Science 12<sup>1</sup> (2).

Art and Design 1<sup>1</sup> (2), 2 (2), 10 (1), 12 (2).

## Second Year

Men must continue Military Science throughout the second year. Women must continue Physical Education throughout the second year. Students who have failed to secure credit for any of the prescribed subjects of the freshman year must make up such deficiencies at this time.

## Election

Aside from the subjects prescribed for the first two years, each student selects, with the advice of the Dean or other college advisers, such courses as will enable him to meet the requirements for graduation as stated above.

## CURRICULUM IN JOURNALISM

Students who are preparing for reportorial, literary, or editorial work in journalism should take their major work in English, and make up their study schedules from the following suggested curriculum. With the consent of the adviser, other studies may, for purposes of specialization, be substituted for those suggested. A program which satisfies the group and major requirements may, for instance, be so modified in the third and fourth years as to lay emphasis on any one of the social sciences.

Students in journalism with major in English are subject to the requirements of the General Curriculum in Liberal Arts and Sciences.

<sup>1</sup>Either semester.

<sup>2</sup>Prerequisite: Mathematics 4 (Trigonometry) which may be taken at the same time.

<sup>3</sup>May be taken either semester, but not in both.

<sup>4</sup>English 10-11 is open to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 318.

<sup>5</sup>Prerequisite: Entrance credit in Physics, and Chemistry 1 or 1a.

## Curriculum in Journalism

(Major in English)

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>	
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 1 <sup>2</sup> —Gymnasium and Hygiene <sup>2</sup> ....	1	Phys. Ed. 2 <sup>2</sup> —Gymnasium.....	1
Military 1a <sup>2</sup> —Military Drill.....	$\frac{1}{2}$	Mil. 2a <sup>2</sup> —Military Drill.....	$\frac{1}{2}$
Military 1b <sup>2</sup> —Military Theory.....	$\frac{1}{2}$	Mil. 2b <sup>2</sup> —Military Theory.....	$\frac{1}{2}$
Total.....	5	Total.....	5
<i>Suggested Electives</i>		<i>Suggested Electives</i>	
Engl. 10—Introduction to Literature.....	3	Engl. 11—Introduction to Literature.....	3
Science.....	5	Science.....	5
Foreign language.....	4	Foreign language.....	4
Hist. 1a—Continental European History.....	4	Hist. 1b—Continental European History.....	4
Lib. Sci. 12—General Reference.....	2		

## SECOND YEAR

<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>	
Mil. 3a <sup>2</sup> —Military Drill.....	$\frac{1}{2}$	Mil. 4a <sup>2</sup> —Military Drill.....	$\frac{1}{2}$
Mil. 3b <sup>2</sup> —Military Theory.....	$\frac{1}{2}$	Mil. 4b <sup>2</sup> —Military Theory.....	$\frac{1}{2}$
<i>Suggested Electives</i>		<i>Suggested Electives</i>	
Engl. 1—Survey of English Literature.....	4	Engl. 1—Survey of English Literature.....	4
Science.....	5	Econ. 3—Money and Banking.....	3
Engl. 12—American literature.....	2	Engl. 23—Shakespeare; or English 13; American Literature.....	3 or 2
Foreign language continued.....	4	Foreign language continued.....	4
Hist. 3a—History of the United States.....	3	Hist. 3b—History of United States.....	3
Pol. Sci. 1—American National Government.....	3	Journalism 2—The Newspaper.....	3
Econ. 1—Principles of Economics.....	5	Pol. Sci. 3—State and Local Government.....	3
Journalism 1—Collecting and Writing of News.....	3		

## THIRD AND FOURTH YEARS

Study lists for these years should be arranged from the following list with regard to proper sequence.

Economics	Hours <sup>1</sup>	Economics	Hours
4—Financial History of U. S.....	3	12b—Labor Problems.....	3
12a—Labor Problems.....	3	13—Economic History of Europe.....	3
English		English	
27—History of Journalism.....	2	3—Milton.....	3
21—Literary History of the Bible.....	3	5—Shakespeare.....	3
45—Development of the Modern Drama...	3	24—Victorian Period.....	3
		28—Magazine in America.....	2
		52—Novelists of 19th Century.....	3
History		History	
21—The United States since 1877.....	3	17—History of Illinois.....	2
26—History of Latin-American Colonies..	3	27—Latin-America.....	3
		29—Far East.....	3
Journalism		Journalism	
3—Copy-reading and Head-writing.....	2	4—Make-Up and Editorial Practise.....	2
5—Problems of Reporting.....	2	6—Newspaper Policies.....	2
7—Making a Country Newspaper.....	2	10—Editorials and Special Articles.....	3
9—Editorials and Special Articles.....	3	32—Law of the Press.....	2
Language.....	4	Language.....	4
Philosophy		Philosophy	
1—Logic.....	3	2—Introduction to Philosophy.....	3
9—Political and Social Ethics.....	3	Political Science	
7—Ethics.....	3	12—National Administration in U. S.....	3
Political Science		14—Political Parties and Methods.....	2
5—Constitutional Law.....	3	34—Municipal Problems.....	3
4—Municipal Government.....	3	Psychology	
6—International Law.....	3	2—General Psychology.....	3
13—State Administration in the U. S.....	2	Rhetoric	
Psychology		7—Short Story Writing.....	3
1—Introduction to Psychology.....	3	17—Advanced Composition.....	3
Rhetoric		Sociology	
6—Short Story Writing.....	3	9—Criminology.....	3

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>Young women who elect this curriculum will take Physical Education 7a-7b, 8a-8b, and Hygiene 1, in place of these subjects.

## CURRICULUM PRELIMINARY TO LAW

It is recognized by the best authorities on legal education that professional studies in law should be preceded by a thoro course in the humanities and the sciences. As a foundation for the study and practise of law, the following subjects offered by this College are of special importance: English, with special reference to composition and public speaking; Latin and French; logic; constitutional and political history; political science; economics; sociology.

## Suggested two-year Curriculum Preparatory to Law

## FIRST YEAR

## FIRST SEMESTER

	Hours <sup>1</sup>
Foreign language.....	4
Hist. 2a—English History.....	3
Mathematics or science.....	5
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 1—Gymnasium, and Hygiene 1....	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$
Total.....	17

## SECOND SEMESTER

	Hours <sup>1</sup>
Foreign language.....	4
Hist. 2b—English History.....	3
Math. 2—Trigonometry.....	3
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Military Theory.....	$\frac{1}{2}$
Total.....	15

## SECOND YEAR

Econ. 1—Principles of Economics.....	5
Hist. 3a—History of the U. S.....	3
Mathematics or science or foreign languages. 3 or 4	3
Pol. Sci. 1—American Government.....	3
Mil. 3a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$
Total.....	17 or 16

Econ. 3—Money and Banking.....	3
Engl. 20—Chief English Writers.....	4
Hist. 3b—History of the U. S.....	3
Philos. 1—Logic.....	3
Pol. Sci. 3—State and Local Government....	3
Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	17

By the proper selection of his studies it is possible for a prospective law student to take both the degree in arts and the degree in law in six years. During his junior and senior years a student in the College of Liberal Arts and Sciences who has earned at least 30 hours in this college may take and count toward the degree of Bachelor of Arts not to exceed 30 hours of credit in law. *Students in this College are not permitted to begin this work in law until their junior year.* If the student is also a candidate for the degree of Bachelor of Laws or Doctor of Law, he must in each semester of his fourth year register both in the College of Law and in the College of Liberal Arts and Sciences.

The degree of Bachelor of Arts is conferred at the close of the fourth year of the combined course provided that all the requirements for the degree are met at that time.

Students admitted to this University from other institutions may count the above courses in law for the degree of Bachelor of Arts only on condition of completing at least 30 hours' work in residence in subjects offered by the College of Liberal Arts and Sciences.

## HOME ECONOMICS

The courses of instruction given in this department are planned to meet the needs of four classes of students: (a) those who desire a knowledge of the general principles and facts of home economics; (b) those who wish to make a specialty of home economics for the purpose of teaching the subject in secondary schools and colleges; (c) those who wish a knowledge of the principles underlying household administration and institutional management; (d) those who are interested in work in dietetics.

The suggested courses for teachers and for institutional workers are outlined below. The first three years of the course as outlined for teachers give a scientific basis for the work

<sup>1</sup>Semester hours. For definition, see page 253.

of the dietitian. Students who wish to be recommended by the department for teaching, whether in the schools or in hospitals, are advised to take Home Economics 13 and 11.

Students who hold *scholarships in home economics* must make this subject their major along one of the lines indicated above and take each semester at least four hours in home economics or in subjects required for admission to courses in home economics.

Students whose major is home economics must also satisfy the requirements of the General Curriculum in the College of Liberal Arts and Sciences in so far as these are not covered in the courses given below, and should follow the directions for students in the General Curriculum, using the outlines below in connection with those directions.

### Suggested Curriculum for Teachers of Home Economics

#### FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1 or Chem. 1a <sup>2</sup> —Inorganic Chemistry	5 or 3	Chem. 2a—Inorg. Chem. and Qual. Anal.	5
Foreign language	4	Foreign language	4
Home Econ. 8—Art and Sanitation in Daily Life	2	Home Econ. 11—Principles of the Selection and Preparation of Food	3
Rhet. 1—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Ed. 7—Physical Training	1	Phys. Ed. 7—Physical Training	1
Phys. Ed. 9—Hygiene	1		
Total	16 or 14	Total	16
<i>Alternatives</i>		<i>Alternatives</i>	
Lib. Sci. 12—General Reference	2	Home Econ. 7—Textiles	3
Home Econ. 7—Textiles	3	Home Econ. 21—Weaving	1

#### SECOND YEAR

A. and D. 1—Freehand Drawing	3	A. and D. 12—Applied Design	2
Chem. 13a—Agricultural Analysis	5	Bot. 1—General Botany or Zool. 1—General Zoology	5
Engl. 1—Survey of English Literature	4	Chem. 9—Organic Chemistry	3
Home Econ. 6—Economic Uses of Food	4	Chem. 9c—Organic Synthesis	2
Phys. Ed. 8a—Physical Training	1	Engl. 2—Survey of English Literature	4
		Phys. Ed. 8b—Physical Training	1
Total	17	Total	17

#### THIRD YEAR

Educ. 25—Educational Psychology	3	Bact. 5—Bacteriology	5
Hist. 1a—Continental European Hist. or Hist. 3a—History of the U. S.	4 or 3	Educ. 10—Technic of Teaching	3
Home Econ. 2—Home Architecture	3	Home Econ. 3—Home Decoration	3
Home Econ. 19—Dress Design	3	Home Econ. 5—Dietetics	3
Physiol. 4—General Physiology	5	Home Econ. 12—Clothing	3
Total	18 or 17	Total	17
<i>Alternative</i>		<i>Alternatives</i>	
Philos. 1—Logic	3	Econ. 1—Principles of Economics	5

#### FOURTH YEAR

Educ. 6—Secondary Education	3	Home Econ. 11—Teachers' Course	3
Home Econ. 4—Food and Nutrition	5	Home Econ. 20—Infant Nutrition	2
Home Econ. 13—Teachers' Course	3	Home Econ. 39—Nutrition	1
Home Econ. 34—Teachers' Course in Sewing	2	Hist. 1b—Continental European History or Hist. 3b—History of the U. S.	4 or 3
Total	13	Total	10 or 9
<i>Alternatives</i>		<i>Alternatives</i>	
English, advanced		Engl. h advanced	
Home Econ. 18—Lunch Room Management	5	Home Econ. 14—Practise House and Home Econ. 35—Experimental Cookery	3
Pub. Sp. 1—Oral Expression	2	Home Econ. 17—Problems in Textiles	3
Sociol. 1—Principles of Sociology	3	Home Econ. 33—Diet in Disease	3
		Pub. Sp. 2—Oral Expression	2
		Sociol. 7—Social Problems of the Rural Community	

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>If Chemistry 1a is taken, an elective must be added, with the approval of the adviser.

<sup>3</sup>Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.



## Suggested Curriculum in Household Administration

## FIRST YEAR

## FIRST SEMESTER

	Hours <sup>1</sup>
Chem. 1 <sup>2</sup> or Chem. 1a—Inorganic Chemistry.....	5 or 3
Foreign Language.....	4
Home Econ. 8—Art and Sanitation in Daily Life.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1
Phys. Ed. 9—Hygiene.....	1
Total.....	16 or 14

## Alternative

Lib. Sci. 12—General Reference.....	2
-------------------------------------	---

## SECOND SEMESTER

	Hours <sup>1</sup>
Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Foreign Language.....	4
Home Econ. 1 <sup>3</sup> —Selection and Preparation of Food.....	3
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1
Total.....	16

## Alternatives

A. & D. 1—Freehand Drawing.....	3
Econ. 22—Economic History of the U. S.....	3
Home Econ. 7—Textiles.....	3

## SECOND YEAR

A. & D. 1—Freehand Drawing.....	3
Foreign Language or English 1.....	4
Econ. 1—Principles of Economics.....	5
Home Econ. 6—Economic Uses of Food.....	4
Phys. Ed. 8a—Physical Training.....	1
Total.....	17

## Alternatives

Chem. 13a—Agricultural Analysis.....	
Hist. 1a—Continental European History or Hist. 3a—History of the U. S.....	4 or 3

A. & D. 12—Applied Design.....	2
Bot. 1—General Botany or Zool. 1—General Zoology.....	5
Foreign Language or English 2.....	4
Home Econ. 7—Textiles.....	3
Phys. Ed. 8b—Physical Training.....	1
Total.....	15

## Alternatives

Chem. 9—Organic Chemistry and.....	3
Chem 9c—Organic Synthesis.....	2
or Econ. 26—Economic Resources.....	5 or 3
Hist. 1b—Continental European History or Hist. 3b—History of the U. S.....	4 or 3

## THIRD YEAR

Home Econ. 2—Home Architecture.....	3
Home Econ. 19—Dress Design.....	3
Physiol. 4—General Physiology.....	5
Total.....	11

## Alternatives

Bac. 5—Introduction to Bacteriology.....	5
English, advanced.....	
Home Econ. 10—Organization and Management of the Household.....	3
Sociol. 1—Principles of Sociology.....	3

Home Econ. 3—Home Decoration.....	3
Home Econ. 5—Dietetics.....	3
Home Econ. 12—Clothing.....	3
Total.....	9

## Alternatives

Home Econ. 14—Practise House.....	3
and Home Econ. 35—Experimental Cookery.....	3
Home Econ. 40—Home Nursing.....	1
Philos. 2—Introduction to Philosophy.....	3
Pol. Sci. 3—State and Local Government.....	3
Pol. Sci. 16—Government of Illinois.....	2

## FOURTH YEAR

English, advanced.....	
Home Econ. 4—Food and Nutrition.....	5
Home Econ. 13—Teachers' Course.....	3
Home Econ. 18—Lunch Room Management.....	5

## Suggested

English, advanced.....	
Home Econ. 9—Problems in Extension.....	3
Home Econ. 17—Problems in Textiles.....	3
Home Econ. 20—Infant Nutrition.....	2
Home Econ. 28—Organization and Management of the Household.....	2
Home Econ. 33—Diet in Disease.....	3
Home Econ. 39—Nutrition.....	1

## Suggested

## PRE-MEDICAL CURRICULUM

The requirements for admission to the College of Medicine are stated on page 77.

The following suggested two-year pre-medical curriculum covers the entrance requirement of the College of Medicine and includes additional courses in science which it is considered desirable for prospective medical students to take. This course of study is recommended to students who enter the College of Liberal Arts and Sciences to prepare themselves for the study of medicine.

<sup>1</sup>Semester hours. For definition see page 253.

<sup>2</sup>If Chemistry 1a is taken, an elective must be added, with the approval of the adviser.

<sup>3</sup>Attention is called to the fact that high school physics is a prerequisite for Home Economics 1.

## Suggested Pre-Medical Curriculum

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1—General Chemistry.....	5	Chem. 2a—Inorganic Chemistry.....	5
Math. 4—Trigonometry.....	2	Zool. 2—Vertebrate Zoology.....	5
Zool. 1—General Zoology.....	5	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1—Gymnasium, and Hygiene 1.....	1	Mil. 2a—Military Drill.....	1½
Mil. 1a—Military Drill.....	1½	Mil. 2b—Military Theory.....	½
Mil. 1b—Military Theory.....	½		
Total.....	17	Total.....	15

## SECOND YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 5a—Quantitative Analysis.....	5	Chem. 9, 9c—Organic Chemistry.....	5
French or German.....	4	French or German.....	4
Physics 7a—General Physics.....	2½	Physics 7b—General Physics.....	2½
Physics 8a—Laboratory.....	2½	Physics 8b—Laboratory.....	2½
Zool. 3—Microscopical Technics.....	3	Zool. 6—Vertebrate Organogeny.....	3
Mil. 3a—Military Drill.....	1½	Mil. 4a—Military Drill.....	1½
Mil. 3b—Military Theory.....	½	Mil. 4b—Military Theory.....	½
Total.....	18	Total.....	13

## Suggested Curriculum in Economic Entomology

For students wishing to prepare for state or national service in economic entomology or as teachers of entomology in agricultural colleges or universities, the following curriculum has been arranged to include the entomological, agricultural, and horticultural courses most essential to the end in view, together with the required subjects and the group electives necessary for the degree of Bachelor of Arts.

The principal features of the prescribed part of this curriculum are 25 hours of entomology, 15 hours of other biological subjects, 17 hours of agriculture and horticulture, 10 hours of chemistry, and 46 hours of courses required for graduation, group electives, and other miscellaneous courses. Seventeen hours of free electives remain after the courses of this prescribed list are provided for.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
French 1a <sup>2</sup> —Elementary French, or German 1—Elementary German.....	4	French 1b <sup>2</sup> —Elementary French, or German 3—Narrative Prose.....	4
Ent. 1a or 1b—Elementary Entomology, or Ent. 3—Insects of the Vicinity.....	2 or 3	Ent. 4—Introduction to Economic Entomology.....	3
Bot. 1—General Botany.....	5	Zool. 1—General Zoology.....	5
Mil. 1a—Practical Instruction.....	1½	Mil. 2a—Practical Instruction.....	1½
Mil. 1b—Theoretical Instruction.....	1½	Mil. 2b—Theoretical Instruction.....	1½
Hygiene 1—Phys. Ed. 1—Gymnasium.....	½	Phys. Ed. 2—Gymnasium.....	1
Total.....	16 or 17	Total.....	17

## SECOND YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Engl. 20—Chief English Writers of the Nineteenth Century.....	4	Ent. 2—General Entomology.....	3
Ent. 8a—Advanced Economic Entomology.....	3	Ent. 8b—Advanced Economic Entomology.....	3
Hort. 1a—Elements of Horticulture.....	2	Agron. 25—Farm Crops.....	4
Lib. Sci. 12—General Reference.....	2	Ag. Ext. 3—Agricultural Extension Teachings.....	1
Mil. 3a—Practical Instruction.....	1½	Hort. 1b—Elements of Horticulture.....	2
Mil. 3b—Theoretical Instruction.....	½	Mil. 4a—Practical Instruction.....	1½
Total.....	12	Mil. 4b—Theoretical Instruction.....	½
<i>Electives Recommended</i>		<i>Electives Recommended</i>	
German 4 <sup>3</sup> —Prose Reading.....	4	German 6 <sup>3</sup> —Scientific German.....	4
Zool. 16—Economic Ornithology.....	2	Ent. 16—Apiculture.....	2
Bot. 4d—Trees and Shrubs of the Campus.....	3	Zool. 4—Invertebrate Morphology.....	3
Geol. 14—Weather and Climate.....	3	Pub. Sp. 2—Extemporaneous Speaking.....	2
Pub. Sp. 1—Oral Expression.....	2		

<sup>1</sup>Semester hours. For definition see page 253.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

<sup>3</sup>If the student has offered two units of French for entrance and has elected German 1 and German 2 in his freshman year, he should elect a second year of German at this time.

## THIRD YEAR

Hist. 3a—History of the United States.....	3	Hist. 3b—History of the United States.....	3
Psych. 1—Introduction to Psychology.....	4	Econ. 2—Principles of Economics.....	3
Chem. 1—Inorganic Chemistry.....	5	Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Ent. 13—Insects and Disease.....	2	Ent. 7b—Systematic Entomology.....	5
<b>Total.....</b>	<b>14</b>	<b>Total.....</b>	<b>16</b>
<i>Electives Recommended</i>		<i>Electives Recommended</i>	
Pol. Sci. 1—American National Government.....	3	Pol. Sci. 3—State and Local Government....	3
Econ. 1—Principles of Economics.....	5	Hist. 17—The History of Illinois.....	2
Bot. 23—Plant Ecology.....	3	Zool. 9—Animal Ecology.....	3
Photog. 1—The Principles and Practise of Photography.....	0	Photog. 2—The Principles and Practise of Photography.....	0
Ent. 7a—Systematic Entomology.....	5		
Ent. 14—Medical Entomology.....	2		
Phys. 4—General Physiology, Chemical and Experimental.....	5		

## FOURTH YEAR

Bot. 7a—Plant Pathology.....	5	Philos. 1—Logic.....	3
Chem. 13a—Elementary Quantitative Analysis.....	5	Hort. 7—Spraying.....	3
Ent. 10a—Advanced Systematic Entomology.....	3	Agron. 12—Soil Fertility, Fertilizers, and Rotations.....	5
<b>Total.....</b>	<b>13</b>	<b>Total.....</b>	<b>11</b>
<i>Electives Recommended</i>		<i>Electives Recommended</i>	
Ent. 18a—Insect Taxonomy.....	5	Ent. 18a—Insect Taxonomy.....	5
Ent. 6a—Thesis Investigation.....	5	Ent. 10b—Advanced Systematic Entomology.....	3
Zool. 11—Experimental Ecology and Geography.....	2 or 4	Ent. 6b—Thesis Investigation.....	5
Bact. 5—Introductory Bacteriology.....	5	Zool. 5—Heredity and Evolution.....	2
Math. 2—College Algebra.....	3	Math. 23—Averages, etc.....	3
		Philos. 9—Political and Social Ethics.....	3

## Curriculums in Chemistry and Chemical Engineering

Students who follow the General Curriculum in the College of Liberal Arts and Sciences with chemistry as a major subject are eligible for the degree of Bachelor of Arts.

For the more specialized training of the chemist, the following curriculums, largely prescribed, have been arranged. Each requires a maximum total of 136 hours, and leads to the degree of Bachelor of Science.

Attention is called to the fact that the schedules for the first and second years in both chemistry and chemical engineering are the same.

Preliminary preparation in German or French equivalent to two years of high school work or one year of university work is prescribed. The total language requirement for graduation, including courses offered for entrance, must be equivalent to two years of University German or French. Prospective students are advised to offer one unit of physics as a part of the electives of Group B.

Students registering either in the curriculum in chemistry or in the curriculum in chemical engineering must offer 1 unit of high-school chemistry and  $\frac{1}{2}$  unit of advanced algebra for admission to these curriculums. University credit in Chemistry 1 (five hours) is acceptable in lieu of one unit of entrance chemistry.

## FIRST YEAR, BOTH CURRICULUMS

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1a—Inorganic Chemistry.....	3	Chem. 3a—Inorganic Chemistry and Qualitative Analysis.....	5
Math. 2—College Algebra.....	3	Math. 6—Analytical Geometry.....	4
Math. 4—Plane Trigonometry.....	2	German or French.....	4
German or French.....	4	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1—Gymnasium, and Hygiene 1.....	1	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2b—Drill Regulations.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$		
<b>Total.....</b>	<b>17</b>	<b>Total.....</b>	<b>18</b>

<sup>1</sup>Semester hours. For definition see page 253.

## SECOND YEAR. BOTH CURRICULUMS

Chem. 5a—Quantitative Analysis.....	5	Chem. 5b—Advanced Analytical Chemistry..	5
Math. 8a—Differential Calculus.....	3	Math. 8b—Integral Calculus.....	3
Phys. 1a—General Physics.....	3	Phys. 1b—General Physics.....	2
Phys. 3a—Physical Measurements.....	2	Phys. 3b—Physical Measurements.....	2
Geol. 20—General Mineralogy.....	3	Engl. 20 or Hist. 3b	
Mil. 3a—Military Drill.....	$\frac{1}{2}$	or	
Mil. 3b—Military Theory.....	$\frac{1}{2}$	T. & A. M. 201.....	3
		Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	17	Total.....	16

## CURRICULUM IN CHEMISTRY, THIRD AND FOURTH YEARS

In the following schedule of courses, after the second year there are offered certain *prescribed subjects* required of all students and in addition six *group options*, the last five of which are outlined for the purpose of affording systematic training along certain important lines of applied chemistry. The first option, A, is intended for those students who wish to place chief emphasis on the fundamental branches of chemistry as a science and for those students who desire a combination of subjects not outlined in the other four groups. Students in option A must submit to their adviser at the beginning of the junior year an outline of their proposed program for the junior and senior years. Approval of such an outline must be secured from the adviser before registering. At least 12 hours of the electives under option A must be in chemistry and it is recommended that they be selected as far as possible from more advanced courses in inorganic, analytical, organic, and physical chemistry. In all groups in the junior and senior years the subjects to be taken outside of the department, including electives, must amount to at least ten hours including a course in the theory of economics. Students who have presented German for entrance should take French 1a and 1b among the electives of the junior year; those who have offered French should take German 1 and 3.

The groups provided for, with the letter used to designate each group, are as follows:

- A. General.
- B. Electrochemical.
- C. Industrial.
- D. Food.
- E. Physiological.
- F. Sanitation.

## THIRD YEAR

<i>Prescribed for all Groups</i>		<i>Prescribed for all Groups</i>	
Chem. 14a—Organic Chemistry.....	4	Chem. 14b—Organic Chemistry.....	2
Chem. 14c—Organic Synthesis.....	2	Chem. 14d—Organic Synthesis.....	2
Chem. 92a—Journal Meeting.....	1	Chem. 92b—Journal Meeting.....	1
Chem. 65—Gas and Fuel Analysis.....	2	Chem. 31—Physical Chemistry.....	3
		Chem. 33—Physical Chemistry Laboratory...	2
		Chem. 90—Inspection Trip.....	0
		Econ. 2—Principles of Economics.....	3
Total.....	9	Total.....	13
<i>Group Options</i>		<i>Group Options</i>	
A <sup>2</sup> —General, Electives.....	8	A—General, Electives.....	4
B—Electrochemical		B—Electrochemical, Electives.....	4
E. E. 8—Electric Currents and Apparatus	3	C—Industrial, Electives.....	4
E. E. 68—Electrical Engineering Laboratory.....	1	D—Food Electives.....	4
Electives.....	4	E—Physiological Electives.....	4
C—Industrial		F—Sanitation, Chemistry 10a, Water Chemistry.....	3
E. E. 8—Electric Currents and Apparatus	3		
E. E. 68—Electrical Engineering Laboratory.....	1		
Electives.....	4		
D, E, and F—Food, Physiological and Sanitation			
Bact. 5—Introductory Bacteriology.....	5		
Electives.....	3		

<sup>1</sup>T. & A. M. 20 required for curriculum for Chemical Engineers.

<sup>2</sup>12 hours of the total electives of the third and fourth years in Group Option A must be in chemistry; 10 hours must be taken outside of the Department.

## FOURTH YEAR

*Prescribed for all Groups*

Chem. 11a—Research.....	5
Chem. 93a—Journal Meeting.....	1
Chem. 95—History of Chemistry.....	2

---

 Total..... 8
*Group Options*

A—General Electives.....	9
B—Electrochemical	
Chem. 35—Electrochemistry.....	3
Chem. 37—Experimental Problems in Physical and Electrochemistry.....	4
Phys. 4a—Electrical and Magnetic Measurements.....	2
C—Industrial	
Chem. 7—Metallurgy.....	3
Chem. 35—Electrochemistry.....	3
Chem. 69—Met. Lab. and Assaying.....	2
Electives.....	1
D—Food	
Chem. 25—Food Analysis.....	5
Chem. 21—Qual. Organic Analysis.....	2
Electives.....	2
E—Physiological	
Chem. 15—Physiological Chem.....	5
Chem. 21—Qual. Organic Analysis.....	2
Electives.....	2
F—Sanitation	
Chem. 10c.....	3
Electives.....	8

*Prescribed for all Groups*

Chem. 6—Chemical Technology.....	3
Chem. 11b—Research.....	5
Chem. 93b—Journal Meeting.....	1
Chem. 91—Inspection Trip.....	0

---

 Total..... 9
*Group Options*

A—General Electives.....	8
B—Electrochemical, Electives.....	8
C—Industrial	
Chem. 61—Industrial Laboratory.....	3
Chem. 78.....	2
Electives.....	3
D—Food	
Chem. 26—Pharmaceutical Chemistry... Electives.....	3
Electives.....	5
E—Physiological	
Chem. 15a.....	3
Electives.....	5
F—Sanitation	
Electives.....	8

## CURRICULUM IN CHEMICAL ENGINEERING, THIRD AND FOURTH YEARS

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four-year curriculum in chemistry and related engineering subjects has been arranged. The degree given is that of Bachelor of Science in chemical-engineering.

It is advised that students intending to take this curriculum be prepared to offer two units of Manual Training, including mechanical drawing, for entrance or arrange to take equivalent courses in the University.

## THIRD YEAR

Chem. 14a—Organic Chemistry.....	4
Chem. 14c—Organic Synthesis.....	2
Chem. 92a—Journal Meeting.....	1
E. E. 8—Electrical Currents and Apparatus.....	3
E. E. 68—Electrical Engineering Laboratory.....	1
T. and A. M. 21—Analytical Mechanics.....	2
T. and A. M. 25—Resistance of Materials....	4

---

 Total..... 17

Chem. 14b—Organic Chemistry.....	2
Chem. 14d—Organic Synthesis.....	2
Chem. 31—Physical Chemistry.....	3
Chem. 33—Physical Chemistry Laboratory... 2	2
Chem. 92b—Journal Meeting.....	1
Chem. 6—Chemical Technology.....	3
Chem. 61—Industrial Chemistry Laboratory... or Chem. 10a.....	3
Chem. 90—Inspection Trip.....	0

---

 Total..... 16

## FOURTH YEAR

Chem. 7—Metallurgy of Iron and Steel.....	3
Chem. 11a—Research.....	3
Chem. 35—Electrochemistry.....	3
Chem. 65—Technical Gas and Fuel Analysis	2
Chem. 69—Assaying.....	2
Chem. 93—Journal Meeting.....	1
M. E. 1, 2, or 3—Steam Engineering.....	3

---

 Total..... 17

Chem. 11b—Research.....	6
Chem. 93b—Journal Meeting.....	1
M. E. 61, 62, or 64—Mechanical Engineering Laboratory.....	2 or 3
Chem. 91—Inspection Trip.....	0
Electives.....	8 or 9

---

 Total..... 17 or 18

<sup>1</sup>12 hours of the total electives of the third and fourth years in Group Option A must be in chemistry; 10 hours must be taken outside of the Department.

## CURRICULUM IN PHARMACEUTICAL CHEMISTRY

For the benefit of students who are graduates of recognized colleges of pharmacy a new option in pharmaceutical chemistry leading to the degree of Bachelor of Science in Chemistry is offered.

The credits to be allowed on transfer are based upon the course of study of the University of Illinois School of Pharmacy.

For entrance to the School of Pharmacy fifteen units of high-school work are required. For the degree of Graduate in Pharmacy, the students attend for two years of thirty-six weeks each. The course of study is the equivalent of fifty-eight university hours. For the degree of Pharmaceutical Chemist, an additional year of thirty-six weeks is taken and the course of study for this year is equivalent to twenty-five University hours.

The following option in pharmaceutical chemistry leads to the degree of B.S. in Chemistry.

1. Persons holding the degree of Graduate of Pharmacy from a college of pharmacy holding membership in the American Conference of Pharmaceutical Faculties, who can present fifteen units of high-school work for entrance, will be allowed forty hours of University credit in the chemistry curriculum.

2. In addition to forty hours of credit in order to take up the work of the third year a student must offer the following subjects from the University of Illinois or elsewhere:

College Algebra.....	3 hours
Trigonometry.....	2 hours
Analytical Geometry.....	4 hours
Calculus.....	6 hours
Physics.....	9 hours
Rhetoric and Composition.....	6 hours
French or German (preceded by two units' entrance credit in the same language).....	8 hours
Total.....	38 hours

Such students will have junior standing.

3. The work of the junior and senior years should include the following courses:

Chemistry 14b, Advanced Organic Chemistry Lectures.....	2 hours
Chemistry 14c and 14d, Organic Preparations.....	4 hours
Chemistry 5b, Advanced Quantitative Analysis.....	5 hours
Chemistry 31, Physical Chemistry.....	3 hours
Chemistry 33, Physical Chemical Measurements.....	2 hours
Chemistry 95, History of Chemistry.....	2 hours
Chemistry 6, Industrial Chemistry.....	3 hours
Chemistry 92a, 92b, 93a, 93b, Journal Meeting.....	4 hours
Chemistry 11a, 11b, Thesis.....	10 hours
Electives in Chemistry.....	12 hours
Non-chemical electives.....	5 hours
Military Training and Physical Education or electives.....	6 hours
Total.....	58 hours

Students holding the degree of Pharmaceutical Chemist will be allowed eighteen hours of advanced standing in lieu of the eighteen hours' chemical and non-chemical electives of the last two years.

## RECOGNITION OF THE UNIVERSITY OF ILLINOIS IN GREAT BRITAIN AND IRELAND

### The University of Oxford

The University of Oxford on October 24, 1916, passed the following decrees:

1. That any member of the University of Illinois who shall have pursued at that University a course of study in the College of Liberal Arts and Sciences, extending over two years at the least, and shall have received an average grade of 80 per cent. or higher, in at

least 65 semester hours, shall be eligible for admission to the status and privileges of a Junior Foreign Student.

2. That any member of the University of Illinois who shall have pursued at that University a course of study in the College of Liberal Arts and Sciences, extending over three years at the least, and shall have received an average grade for three consecutive years of 86 per cent., or higher, shall be eligible for admission to the status and privileges of a Senior Foreign Student.

3. That any member of the University of Illinois who shall have passed Greek 3 and Greek 4 with a grade of not less than 80 per cent. shall be deemed to have shown a sufficient knowledge of Greek as required by the provisions of *Statt. Tit. II, Sect. IX, "On Students from Foreign Universities."*

### **The University of Edinburgh**

The University of Illinois has been recognized by the Edinburgh University Court under Section XX of the Arts Ordinance of that University, which reads as follows:

The Senatus may accept, under such conditions as they may from time to time prescribe, attendance at Universities specially recognized by the University Court, and the examinations passed therein, provided always that every student whose attendance or examinations are thus accepted, shall attend qualifying classes for at least two academical years in the University of Edinburgh, and shall pass the examinations of that University in the subjects studied therein.

Information in regard to the regulations under the above Ordinance may be obtained at the Registrar's Office.

### **The Queen's University of Belfast**

The Academic Council of the Queen's University of Belfast has voted the following instruction:

The Dean is instructed to grant exemption from a year's attendance to students of the University of Illinois who have pursued at that University a course of study in the College of Liberal Arts and Sciences extending over two years at the least and shall have received an average grade of 80 per cent. or higher in at least 65 semester hours.

### **Other British and Irish Universities**

Most of the other universities of Great Britain and Ireland make general provisions for the admission of foreign students to advanced standing or graduate study, under which students from the University of Illinois may, in general, expect to receive recognition, upon individual application, substantially equivalent to that provided for in the regulations of the Universities of Oxford, Edinburgh, and Belfast, as noted above.

# THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

---

For a description of the *building* used by this College, see page 53; for *museum and collections* belonging to it, see page 64; for *societies and clubs* auxiliary to its curriculums, see page 103; for *fees*, see page 113.

## ORGANIZATION

The College of Commerce and Business Administration was established by the Board of Trustees in April, 1915, and opened the following September. The new college was given control of all the work formerly conducted by the Department of Economics, including the courses in business administration. The work of the college is divided into three separate departments as follows: economics, including finance and statistics; business organization and operation, including accountancy and business law; and transportation.

## PURPOSE

The purpose of the College of Commerce and Business Administration is to give its students a knowledge of the principles underlying all lines of business with special training for particular business callings. The College does not attempt to prepare students for clerical and similar occupations as employees, but does endeavor to lay a broad foundation on which successful careers in managerial and administrative positions and as proprietors may be built. To this end courses in economics, accountancy, business organization and operation, banking, commerce, railway administration, and industry are offered in combination with courses in language and literature, the social sciences, law, mathematics, and the natural sciences.

## ADMISSION

See the statement of the entrance requirements of the University, pages 69-76.

## SPECIAL STUDENTS

See the statement of the general regulations of the University in regard to special students, page 73.

## REQUIREMENTS FOR GRADUATION

Students who graduate from the College of Commerce and Business Administration are awarded the degree of Bachelor of Science.

The requirements for graduation are as follows:

1. A candidate must comply with the University requirements as to residence and registration, and secure credit amounting to 130 hours, including the general requirements of *Rhetoric 1-2*, 6 hours; and *Physical Training 1, 1a, and 2*, 2 hours, for men, and *7a-7b and 9*, 3 hours, for women; and *Military Science 1a, 2a, 3a, 4a, and 1b, 2b, 3b, 4b*, 4 hours, for men. Students who elect the Reserve Officers' Training Corps must also take *Military Science 5a, 6a, 7a, 8a, and 5b, 6b, 7b, 8b*, 4 hours.



2. A candidate must secure credit in the subjects listed as *prescribed* in his chosen curriculum, including a semester of lectures on Study Methods given in the freshman year.

3. Of the electives allowed, 8 hours must be either in English literature or in foreign language in all curriculums, but prescribed courses in either of these subjects may be counted in meeting this requirement.

4. In the General Business Curriculum, the Curriculums in Banking, Insurance, Accountancy, Railway Administration, Commerce and Law, and the Curriculum for Commercial and Civic Secretaries, 12 hours must be elected from the following group of subjects: History, political science, philosophy, psychology, and sociology, provided that not less than six hours in any one subject may be counted in fulfilling this requirement; but prescribed courses in any of these subjects may be counted.

5. Ten hours must be elected from the following group of subjects: Chemistry, mathematics, and physics, provided that not less than 5 hours in any one subject may be counted in fulfilling this requirement; but prescribed courses in any of these subjects may be counted.

6. Free electives sufficient to make up the 130 hours required for graduation may be selected from any department of the University. Such electives must, however, be chosen with a view to promoting the specific object of the curriculum pursued and must have the approval of the Dean of the College.

### THE CURRICULUMS

The curriculums in commerce and business administration are: General business, commercial and civic secretarial service, banking, insurance, accountancy, general railway administration, railway transportation, commercial teaching, foreign commerce, industrial administration, and commerce and law. The subjects prescribed for graduation in each curriculum are listed in the following outlines. These subjects are in general arranged in sequence and should be taken in the order given. In addition to the prescribed subjects sufficient electives must be taken each semester to make up a minimum of 15 hours, but not to exceed a maximum of 18 hours of work. In choosing electives the attention of students is called to provisions 3, 4, and 5 of the above statement of the requirements for graduation. It is advisable that the electives there mentioned be taken as far as possible in the first two years in order to leave more opportunity for free electives in the last two years.

#### General Business Curriculum

##### FIRST YEAR

###### FIRST SEMESTER

	Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting.....	3
Econ. 26—Economic Resources.....	3
Rhet. 12—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$
Study Methods.....	0
Electives.....	4-7
Total.....	15-18

###### SECOND SEMESTER

	Hours <sup>1</sup>
Acc'y 1b—Principles of Accounting.....	3
Econ. 22—Economic History of the United States.....	3
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Military Theory.....	$\frac{1}{2}$
Electives.....	4-7
Total.....	15-18

##### SECOND YEAR

Acc'y 2a—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics.....	5
Rhet. 10—Business Writing.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$
Electives.....	4-7
Total.....	15-18

Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 3—Money and Banking.....	3
Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 4b—Military Theory.....	$\frac{1}{2}$
Electives.....	8-11
Total.....	15-18

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

## THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Law 1b—Commercial Law.....	3
Bus. Law 1a—Commercial Law.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 28—Domestic Commerce.....	3	Econ. 10—Corporation Management and Finance.....	3
Trans. 1—Transportation System of the United States.....	3	Rhet. 22—Summarizing and Briefing.....	2
Electives.....	3-6	Trans. 12—Freight Shipment.....	2
		Electives.....	3-6
Total.....	15-18	Total.....	15-18

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2	Bus. Org. and Op. 8—Advertising.....	2
Econ. 5—Public Finance.....	3	Econ. 31—Organization of Foreign Commerce	3
Electives.....	10-13	Electives.....	10-13
Total.....	15-18	Total.....	15-18

**Curriculum for Commercial and Civic Secretaries**

The first and second years of this curriculum are the same as in the General Business Curriculum except that Political Science 1—American Government (3)—is prescribed in the first semester of the second year, while Rhetoric 10—Business Writing (2)—is transferred to the second semester.

## THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 28—Domestic Commerce.....	3	Econ. 10—Corporation Management and Finance.....	3
Pol. Sci. 4—Municipal Government.....	3	Rhet. 22—Summarizing and Briefing.....	2
Sociol. 8—Charities.....	3	Trans. 12—Freight Shipment.....	2
Electives.....	3-6	Electives.....	6-9
Total.....	15 or 18	Total.....	15-18

## FOURTH YEAR

Bus. Law 1a—Commercial Law.....	3	Bus. Law 1b—Commercial Law.....	3
Econ. 5—Public Finance.....	3	Bus. Org. and Op. 8—Advertising.....	2
Electives.....	9-12	Bus. Org. and Op. 9—Commercial and Civic Organizations.....	1
		Hort. 10b—Town Improvement.....	2
		Electives.....	7-10
Total.....	15-18	Total.....	15-18

**Curriculum in Banking**

The first and second years are the same as in the General Business Curriculum except that Mathematics 2—College Algebra (3)—is prescribed in the first semester of the first year.

## THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Bus. Law 1a—Commercial Law.....	3	Bus. Law 1b—Commercial Law.....	3
Econ. 5—Public Finance.....	3	Econ. 10—Corporation Management and Finance.....	3
Econ. 28—Domestic Commerce.....	3	Math. 23—Mathematics of Investment.....	3
Electives.....	3-6	Electives.....	4-7
Total.....	15-18	Total.....	15-18

## FOURTH YEAR

Econ. 9—Practical Banking.....	2	Econ. 4—Financial History of the United States.....	3
Electives.....	13-16	Econ. 8—The Money Market.....	2
		Econ. 31—Organization of Foreign Commerce	3
		Electives.....	7-10
Total.....	15-18	Total.....	15-18

<sup>1</sup>Semester hours. For definition, see page 253.

## Curriculum in Insurance

## FIRST YEAR

## FIRST SEMESTER

	Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting.....	3
Econ. 26—Economic Resources.....	3
Math. 2—College Algebra.....	3
Math. 4—Trigonometry.....	2
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$
Study Methods.....	0
Electives.....	0-2

Total..... 16-18

## SECOND SEMESTER

	Hours <sup>1</sup>
y 1b—Principles of Accounting.....	3
Econ. 22—Economic History of the United States.....	3
Math. 6—Analytic Geometry.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Military Theory.....	$\frac{1}{2}$
Electives.....	0-2

Total..... 16-18

## SECOND YEAR

Acc'y 2a—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics.....	5
Math. 8—Differential and Integral Calculus..	5
Mil. 3a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$
Electives.....	1-4

Total..... 15-18

Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 3—Money and Banking.....	3
Rhet. 10—Business Writing.....	2
Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 4b—Military Theory.....	$\frac{1}{2}$
Electives.....	6-9

Total..... 15-18

## THIRD YEAR

Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 5—Public Finance.....	3
Econ. 28—Domestic Commerce.....	3
Electives.....	3-6

Total..... 15-18

Bus. Law 1b—Commercial Law.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 10—Corporation Management and Finance.....	3
Math. 23—Mathematics of Investment.....	3
Electives.....	4-7

Total..... 15-18

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 33—Economics of Insurance.....	2
Math. 31—Actuarial Theory.....	3
Electives.....	8-11

Total..... 15-18

Bus. Org. and Op. 8—Advertising.....	2
Econ. 34—Property Insurance.....	2
Math. 31—Actuarial Theory.....	3
Electives.....	8-11

Total..... 15-18

## Curriculum in Accountancy

The first and second years are the same as in the General Business Curriculum except that Mathematics 2—College Algebra (3)—is prescribed in the first semester of the first year.

## THIRD YEAR

## FIRST SEMESTER

	Hours <sup>1</sup>
Acc'y 3a—Accounting Problems and Auditing	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 28—Domestic Commerce.....	3
Electives.....	6-9

Total..... 15-18

## SECOND SEMESTER

	Hours <sup>1</sup>
Acc'y 3b—Accounting Problems and Auditing	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 10—Corporation Management and Finance.....	3
Math. 23—Mathematics of Investment.....	3
Electives.....	4-7

Total..... 15-18

## FOURTH YEAR

Acc'y 5a—C. P. A. Problems.....	3
Acc'y 4a—Cost Accounting.....	2
Econ. 11—Industrial Consolidations.....	3
Bus. Law 1a—Commercial Law.....	3
Electives.....	4-7

Total..... 15-18

Acc'y 5b—C. P. A. Problems.....	3
Acc'y 4b—Systems.....	2
Acc'y 20—Income Tax.....	2
Bus. Law 1b—Commercial Law.....	3
Electives.....	5-8

Total..... 15-18

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

**Curriculum in Railway Administration**

The first year of this curriculum is the same as the first year of the Curriculum in Insurance.

**SECOND YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Rhet. 10—Business Writing	2	Trans. 8—Railway Working	2
Trans. 7—Railway Organization	2	Mil. 4a—Military Drill	$\frac{1}{2}$
Mil. 3a—Military Drill	$\frac{1}{2}$	Mil. 4b—Military Theory	$\frac{1}{2}$
Mil. 3b—Military Theory	$\frac{1}{2}$	Electives	6-9
Electives	2-5		
Total	15-18	Total	15-18

**THIRD YEAR**

	Hours <sup>1</sup>		Hours <sup>1</sup>
Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Law 1b—Commercial Law	3
Bus. Law 1a—Commercial Law	3	Trans. 2—Transportation Policy in Europe and the United States	3
Trans. 1—Transportation System of the United States	3	Trans. 22—Railway Train Service or	
Trans. 13—Railway Traffic Administration or		Trans. 26—Economics of Railway Location and Maintenance	3
Trans. 17—Railway Terminal Management	3	Electives	6-9
Electives	3-6		
Total	15-18	Total	15-18

**FOURTH YEAR**

	Hours <sup>1</sup>		Hours <sup>1</sup>
Econ. 12a—Labor Problems	3	Econ. 10—Corporation Management and Finance	3
Econ. 28—Domestic Commerce	3	Econ. 12b—Labor Problems	3
Trans. 17—Railway Terminal Management or		Trans. 26—Economics of Railway Location and Maintenance or	
Trans. 13—Railway Traffic Administration	3	Trans. 22—Railway Train Service	3
Electives	6-9	Electives	6-9
Total	15-18	Total	15-18

**Curriculum in Railway Transportation**

A curriculum designed for those planning to enter the transportation department of the railways.

**FIRST YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Rhet. 2—Rhetoric and Themes	3
Math. 4—Trigonometry	2	Math. 6—Analytic Geometry	5
Rhet. 1—Rhetoric and Themes	3	Phys. Ed. 1—Gymnasium	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	$\frac{1}{2}$
Mil. 1a—Military Drill	$\frac{1}{2}$	Mil. 2b—Military Theory	$\frac{1}{2}$
Mil. 1b—Military Theory	$\frac{1}{2}$	Electives	0-1
Study Methods	0		
Electives	0-1		
Total	17-18	Total	18

**SECOND YEAR**

	Hours <sup>1</sup>		Hours <sup>1</sup>
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Math. 8a—Differential and Integral Calculus	3	Math. 8b—Differential and Integral Calculus	3
Physics 1a—General Physics	3	Physics 1b—General Physics	2
Physics 3a—Physical Measurements	2	Physics 3b—Physical Measurements	2
Trans. 7—Railway Organization	2	Rhet. 10—Business Writing	2
Mil. 3a—Military Drill	$\frac{1}{2}$	Trans. 8—Railway Working	2
Mil. 3b—Military Theory	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics	3
Electives	0-2	Mil. 4a—Military Drill	$\frac{1}{2}$
		Mil. 4b—Military Theory	$\frac{1}{2}$
Total	16-18	Total	18

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>Technical railway courses which were not given 1920-21.

<sup>3</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

## THIRD YEAR

Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Trans. 1—Transportation System of the United States.....	3
Trans. 13 <sup>1</sup> —Railway Traffic Administration or Trans. 17 <sup>1</sup> —Railway Terminal Management Electives.....	3-6
Total.....	15-18

Bus. Law 1b—Commercial Law.....	3
C. E. 76—Surveying.....	2
M. E. 2—Steam Engineering.....	3
Trans. 2—Transportation Policy in Europe and the United States.....	3
Trans. 22 <sup>1</sup> —Railway Train Service or Trans. 26 <sup>1</sup> —Economics of Railway Location and Maintenance.....	3
Electives.....	1-4
Total.....	15-18

## FOURTH YEAR

Econ. 12a—Labor Problems.....	3
E. E. 11—Direct Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1
M. E. 61—Power Measurement.....	2
Trans. 17 <sup>1</sup> —Railway Terminal Management or Trans. 13 <sup>1</sup> —Railway Traffic Administration.....	3
Electives.....	3-6
Total.....	15-18

E. E. 12—Alternating Current Apparatus....	3
E. E. 62—Alternating Current Laboratory....	1
Econ. 10—Corporation Management and Finance or Econ. 12b—Labor Problems.....	3
Trans. 26 <sup>1</sup> —Economics of Railway Location and Maintenance or Trans. 22 <sup>1</sup> —Railway Train Service.....	3
Electives.....	5-8
Total.....	15-18

## Curriculum for Commercial Teachers

The first and second years are the same as in the General Business Curriculum except that foreign language is prescribed in the first year, and Psychology 1—Introduction to Psychology (3), and Psychology 2—General Psychology (3)—in the second year.

## THIRD YEAR

## FIRST SEMESTER

	Hours <sup>2</sup>
Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Educ. 1—Introduction to Education.....	4
Pol. Sci. 1—American Government.....	3
Trans. 1—Transportation System of the United States.....	3
Electives.....	0-2
Total.....	16-18

## SECOND SEMESTER

	Hours <sup>2</sup>
Bus. Law 1b—Commercial Law.....	3
Econ. 10—Corporation Management and Finance.....	3
Educ. 2—History of Education.....	3
Pol. Sci. 3—State and Local Government....	3
Trans. 12—Freight Shipment.....	2
Electives.....	2-4
Total.....	15-18

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 28—Domestic Commerce.....	3
Educ. 15—Social Education.....	3
Electives.....	7-10
Total.....	15-18

Bus. Org. and Op. 8—Advertising.....	2
Econ. 29—Foreign Commerce or Econ. 31—Organization of Foreign Commerce	3
Educ. 10—The Technic of Teaching.....	3
Electives.....	7-10
Total.....	15-18

## Curriculum in Foreign Commerce

The first and second years of this curriculum are the same as in the General Business Curriculum except that foreign language is prescribed throughout both years.

## THIRD YEAR

## FIRST SEMESTER

	Hours <sup>1</sup>
Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 28—Domestic Commerce.....	3
Foreign Language.....	2 or 3
Hist. 3a—History of the United States.....	3
Electives.....	0-3
Total.....	15-18

## SECOND SEMESTER

	Hours <sup>1</sup>
Bus. Law 1b—Commercial Law.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 29—Foreign Commerce.....	3
Econ. 10—Corporation Management and Finance.....	3
Foreign Language.....	2 or 3
Hist. 3b—History of the United States.....	3
Electives.....	0-1
Total.....	17-18

<sup>1</sup>Technical railway courses which were not given 1920-21.

<sup>2</sup>Semester hours. For definition, see page 253.

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2	Econ. 8—The Money Market.....	2
Advanced History.....	3	Econ. 31—Organization of Foreign Commerce.....	3
Pol. Sci. 6—International Law.....	3	Pol. Sci. 7—American Diplomacy.....	3
Electives.....	7-10	Advanced History.....	3
		Electives.....	4-7
Total.....	15-18	Total.....	15-18

## Curriculum in Industrial Administration

The following curriculum is intended to meet the needs of commerce students planning to enter the administrative or selling departments of industrial plants. To the usual courses in economics, accounting, etc., are added certain groups of technical courses offered by other colleges of the University. For the present four such groups have been arranged, as follows: Group A, for those interested in the machine industries; Group B, the electrical industries; Group C, the building trades; Group D, the chemical industries. The student may select the one of these groups that will be most advantageous to him in his future work, but he is required to take all the courses listed in the chosen group. A student electing the chemical industries group is required to take Econ. 26—Economic Resources (3) and Econ. 22—Economic History of the United States (3), instead of G. E. D. 1—Elements of Drafting (4) and G. E. D. 2—Descriptive Geometry (4), in the first year; and Chem. 1 or 1a—Inorganic Chemistry (5 or 3), instead of Economics 22—Economic History of the United States (3) and T. and A. M. 20—Analytical Mechanics (3), in the second year.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting.....	3	Acc'y 1b—Principles of Accounting.....	3
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 12—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1½
Mil. 1a—Military Drill.....	½	Mil. 2b—Military Theory.....	½
Mil. 1b—Military Theory.....	½	Electives.....	0-1
Study Methods.....	0		
Electives.....	0-1		
Total.....	17-18	Total.....	17-18

## SECOND YEAR

Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3
Math. 8a—Differential and Integral Calculus	5	Math. 8b—Differential and Integral Calculus	3
Phys. 1a—General Physics.....	3	Phys. 1b—General Physics.....	2
Phys. 3a—Physical Measurements.....	2	Phys. 3b—Physical Measurements.....	2
Rhet. 10—Business Writing.....	2	Econ. 22—Economic History of the United States.....	3
Mil. 3a—Military Drill.....	½	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	½	Mil. 4a—Military Drill.....	½
		Mil. 4b—Military Theory.....	½
		Electives.....	0-1
Total.....	18	Total.....	17-18

## THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Bus. Law 1a—Commercial Law.....	3	Bus. Law 2b—Commercial Law.....	3
Trans. 1—Transportation System of the United States.....	3	Econ. 23—Statistics.....	3
Prescribed Technical courses, Group A, B, C, or D.....	2-6	Trans. 12—Freight Rates.....	3-6
Electives.....	0-7	Prescribed Technical Courses, Group A, B, C, or D.....	3-6
		Electives.....	0-5
Total.....	15-18	Total.....	16-18

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2	Bus. Org. and Op. 8—Advertising.....	2
Econ. 12a—Labor Problems, or Electives....	3	Econ. 12b—Labor Problems or	
Prescribed Technical Courses, Group A, B, C,		Econ. 10 — Corporation Management and	
or D.....	3-9	Finance.....	3
Electives.....	0-7	Prescribed Technical Courses, Group A, B, C,	
		or D.....	2-10
		Electives.....	0-11
Total.....	16-18	Total.....	17-18

Optional Groups of Technical Courses

GROUP A—Machine Industries:

THIRD YEAR

FIRST SEMESTER

	Hours <sup>1</sup>
T. and A. M. 21—Analytical Mechanics.....	2

SECOND SEMESTER

	Hours <sup>1</sup>
M. E. 75—Forge Work.....	1
M. E. 77—Foundry Work.....	3
M. E. 2—Steam Engineering.....	3

FOURTH YEAR

FIRST SEMESTER

M. E. 61—Power Management.....	2
M. E. 81—Machine Work.....	3
E. E. 11—Direct Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1

SECOND SEMESTER

E. E. 12—Alternating Current Apparatus....	3
E. E. 62—Alternating Current Laboratory...	1

GROUP B—Electrical Industries:

THIRD YEAR

FIRST SEMESTER

T. and A. M. 21—Analytical Mechanics.....	2
---	---

SECOND SEMESTER

M. E. 2—Steam Engineering.....	3
--------------------------------	---

FOURTH YEAR

FIRST SEMESTER

M. E. 61—Power Measurement.....	2
E. E. 11—Direct Current Apparatus.....	3
E. E. 61—Electrical Engineering Laboratory	1

SECOND SEMESTER

E. E. 12—Alternating Current Apparatus....	3
E. E. 62—Electrical Engineering Laboratory.	1
E. E. 90—Lighting.....	1

GROUP C—Building Trades:

THIRD YEAR

FIRST SEMESTER

Arch. Eng. 43—Working Drawings.....	2
T. and A. M. 25—Resistance of Materials...	4

SECOND SEMESTER

T. and A. M. 26—Analytical Mechanics and	
Hydraulics.....	4
Arch. Eng. 44—Working Drawings.....	2

FOURTH YEAR

FIRST SEMESTER

Arch. Eng. 45—Graphic Statics.....	3
------------------------------------	---

SECOND SEMESTER

C. E. 76—Surveying.....	2
-------------------------	---

GROUP D—Chemical Industries:

THIRD YEAR

FIRST SEMESTER

Chem. 2a—Inorganic Chemistry and Qualita-	
tive Analysis.....	5

SECOND SEMESTER

Chem. 5a—Elementary Quantitative Analysis	5
---	---

FOURTH YEAR

FIRST SEMESTER

Chem. 9c—Organic Synthesis.....	2
Chem. 14a—Organic Chemistry.....	3
Chem. 92a—Journal Meeting.....	1

SECOND SEMESTER

Chem. 6—Chemical Technology.....	3
Chem. 31—Elementary Physical Chemistry..	4
Chem. 33—Elementary Physical Chemistry..	2
Chem. 92b—Journal Meeting.....	1

<sup>1</sup>Semester hours. For definition see page 253.

**Curriculum in Commerce and Law**

(A six-year combined curriculum)

The following curriculum is provided for students who wish to combine commercial and legal studies and secure both the degree of Bachelor of Science and the degree of Bachelor of Laws or of Doctor of Law in six years. Students who elect this curriculum must meet all the requirements for graduation from the College of Commerce and Business Administration, but in exercising their privileges of election are urged to select as many hours as possible from the following subjects: Hist. 2a-2b, English History (6); Hist. 3a-3b, United States History (6); Hist. 4a-4b, English Constitutional History (6); Pol. Sci. 1, American Government (3); and Pol. Sci. 3, State and Local Government (3). Students expecting to study law should devote at least 12 hours to work in history and political science. A course in English history is regarded as one of the most essential pre-legal subjects. The law courses in the curriculum may be taken only in the fourth year, and are counted for 30 hours of credit towards the degree, instead of hour for hour, provided the full year's work is completed. In their fourth year students will be regularly registered in the College of Law, but must file copies of their study-lists in the office of the Dean of the College of Commerce and Business Administration at the beginning of each semester.

**FIRST YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 1—Principles of Accounting.....	3	Acc'y 1b—Principles of Accounting.....	3
Econ. 26—Economic Resources.....	3	Econ. 22—Economic History of the United States.....	3
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Phys. Ed. 2—Gymnasium.....	1
Mil. 1a—Military Drill.....	1½	Mil. 2a—Military Drill.....	1½
Mil. 1b—Military Theory.....	½	Mil. 2b—Military Theory.....	½
Electives.....	4-7	Electives.....	4-7
Total.....	15-18	Total.....	15-18

**SECOND YEAR**

Acc'y 2—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3
Rhet. 10—Business Writing.....	2	Philos. 1—Logic.....	3
Mil. 3a—Military Drill.....	½	Mil. 4a—Military Drill.....	½
Mil. 3b—Military Theory.....	½	Mil. 4b—Military Theory.....	½
Electives.....	4-7	Electives.....	5-8
Total.....	15-18	Total.....	15-18

**THIRD YEAR**

Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 5—Public Finance.....	3	Econ. 10—Corporation Finance.....	3
Econ. 28—Domestic Commerce.....	3	Electives.....	10-13
Electives.....	6-9		
Total.....	15-18	Total.....	15-18

**FOURTH YEAR**

Law 1a—Contracts.....	4	Law 1b—Contracts.....	3
Law 2a—Torts.....	3	Law 2b—Torts.....	3
Law 5—Criminal Law.....	4	Law 3—Real Property.....	3
Law 6—Personal Property.....	2	Law 7—Domestic Relations.....	2
Law 37—Introduction to Study of Law.....	1	Law 11—Agency.....	3
Total.....	14	Total.....	14

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.



# THE COLLEGE OF ENGINEERING

---

For a description of the *buildings* used by this College, see page 53; for *collections* belonging to it, see page 65; for *clubs and societies auxiliary to its curriculums*, see page 103; for *fees*, see page 113; for *honors*, see page 92; for *honorary societies*, see page 103.

## GENERAL STATEMENT

The purpose of the College is to train men for the profession of engineering. In arranging its curriculums, cultural subjects are interwoven with the theoretical subjects of the several departments. The instruction of the class-room and the practise afforded by the library, the drafting room, and the laboratory are correlated. Throughout his course the student works on problems and proceeds by methods similar to those which arise in the experience of the practising engineer.

## ADMISSION

See the statement of entrance requirements of the University, pages 69-76.

## SPECIAL STUDENTS

See the statement of the regulations of the University in regard to special students, page 73.

## DESCRIPTION OF DEPARTMENTS

The College of Engineering comprises the following departments:

DEPARTMENT OF ARCHITECTURE, with curriculums in—

Architecture

Architectural Engineering

DEPARTMENT OF CERAMIC ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF ELECTRICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MINING ENGINEERING

DEPARTMENT OF MUNICIPAL AND SANITARY ENGINEERING

DEPARTMENT OF PHYSICS

DEPARTMENT OF RAILWAY ENGINEERING, with curriculums in—

Railway Civil Engineering

Railway Electrical Engineering

Railway Mechanical Engineering

## ARCHITECTURE

The department of architecture offers two curriculums leading to the first degree, the curriculum in architecture and the curriculum in architectural engineering. The aim of these curriculums is to give preparation for the practise of architecture.

The curriculum in architecture aims primarily to train the student to produce correct, thoughtful, and beautiful works of architecture. The schedule includes liberal and scientific subjects to supply the background for creative work and to give a knowledge of the princi-

ples involved in the processes of safe and economical construction; also freehand drawing for the purpose of training the eye to recognize correct proportion and training the hand to skillful and rapid drawing. The curriculum, however, consists mainly of the study of architectural forms and principles and their application in architectural design. From time to time the problems of the Society of Beaux Arts of Architects are given and the student drawings sent to New York for judgment.

The curriculum in architectural engineering gives a groundwork in mathematics and applied mechanics, and includes such studies as strength of materials, bridge, mill, and tall building construction, reinforced concrete, etc. The principles of these subjects are applied to all forms of building construction in a course given in the senior year, known as architectural engineering. While specializing in construction, this curriculum includes also the study of the forms and principles of architecture through such subjects as freehand drawing, architectural history, architectural drawing, and architectural design.

Both curriculums in architecture prepare the student for the examinations of the Illinois State Board of Examiners of Architects, and graduates are exempt from examinations required for entrance into the American Institute of Architects, and from the preliminary examination for the prize in Architecture of the American Academy at Rome. The Plym Fellowship in Architecture is awarded annually to a graduate of the department. This prize, which is awarded by competition, amounts to \$1,000 and provides for one year of travel abroad for the study of architecture.

The American Institute of Architects offers annually a medal to be awarded to the graduate of the department whose work throughout the four years has been adjudged the best. In making the award the scholarship in all work for the entire curriculum is considered.

The Scarab Medal in Architecture is awarded annually to a student of the department. This prize is a bronze medal which is awarded by competition.

Students intending to take up the study of architecture should take freehand and mechanical drawing and general history in high school.

### Equipment

The equipment of the department includes plaster casts of architectural detail and ornament; lantern slides of architectural subjects and of painting and sculpture; a collection of 300 examples of American woods, shown in three sections each; and collections of architectural drawings and of specimens of building materials, fittings and appliances.

A balopticon is used for direct projection of photographs and colored plates, and a double electric lantern for projecting two pictures on the screen at once for comparative study. Geometrical and architectural models are lighted by a light properly adjusted for demonstration of the subjects of shades and shadows and conventional rendering. Wall space in the corridors of the department and in all drafting rooms has been prepared for exhibition purposes, and collections of drawings are constantly displayed. The department occupies the fourth floor of Engineering Hall, and part of the third; its quarters include drafting rooms for undergraduate and graduate work, lecture rooms, studios for freehand drawing, and the Ricker Library of Architecture.

The Ricker Library of Architecture, occupying the entire north wing of the fourth floor of Engineering Hall is open every week day from 8:00 a. m. to 10:00 p. m., except on Saturdays, when it closes at 6:00 o'clock. Large tables are provided for the examination of books, photographs, and drawings. The books representing a collection of several thousand on architecture, engineering, and allied arts, are all books for reference in history, design, and construction. There are also over 10,000 lantern slides, 15,000 mounted photographs and drawings, and an interesting collection of stereoscopic views of several of the principal countries of the world.

**CERAMIC ENGINEERING**

This department offers courses of instruction relating to the fabrication of clay products, cement and glass, and enamels for metals.

In addition to the fundamental engineering courses, work is offered in the physical and chemical principles of the production of silicate products, the winning and preparation of raw materials, their shaping, drying, and burning, or fusion, the composition and application of the various glazes, glasses, enamels, and colors, the planning and construction of industrial plants, and the various machines, apparatus, kilns, and furnaces used in these plants.

Industrial cooperation and research are prosecuted, and a series of bulletins on ceramic subjects is being published.

**Equipment**

The department of ceramic engineering is housed in a three-story brick building providing lecture rooms, class rooms, and laboratory facilities.

The ceramic laboratories contain apparatus for the testing of clays and the preparation of cements, enamels, and glasses; machinery for grinding the raw materials, for shaping bricks, tile, saggars, pottery and refractories; kilns and furnaces for calcining and fusing; pyrometers, potentiometers, electric furnaces, recording instruments, and all other accessories for exact scientific and technical work.

A library pertaining to the silicate industries is available; also sets of working drawings representing the construction of important plants.

**CIVIL ENGINEERING**

The purpose of the department is to make possible a systematic study of the principles of engineering and to give the students an opportunity for practise in the survey, design, and construction of public and other engineering works. The prime object is to bring about the development of the mental faculties of the student, particularly his initiative, and to help him to obtain a good grasp of the needs and opportunities afforded by engineering in general.

**Equipment**

For the surveying courses there is a full equipment of engineers' transits, levels, plane-tables, and other instruments in use not only in ordinary and railroad surveying, but also in more precise work.

In a building set apart for the purpose is a well equipped highway laboratory containing machines for testing bituminous and non-bituminous road materials, including brick, stone, and other road-making substances. The cement laboratory occupies a room in this building. It is provided with facilities for testing hydraulic cement, sand, and other aggregates used in concrete.

**ELECTRICAL ENGINEERING**

This department provides a curriculum in the theory and application of electricity. The first two years of work are substantially the same as in the other engineering curriculums, including work in drafting room and shop, and instruction in the principles of mathematics and physics. In the third year a course in dynamo machinery is followed by the theory of alternating currents, while laboratory and design courses emphasize principles. Technical courses cover the generation, transmission, and distribution of electric power, and its

various applications. In the laboratory a study of dynamos is followed in the fourth year by experiments in the operation of electrical machinery. Investigation of problems of power distribution is made in advanced laboratory and thesis work.

### **Equipment**

The 500-kilowatt power plant of the University supplies the electrical engineering laboratory with current for its operation.

The power equipment in the electrical engineering laboratory includes one hundred direct-current machines with a total capacity of 600 kilowatts, forty alternating-current machines with a total capacity of 400 kilowatts, and sixty-three transformers with a total capacity of 380 kilowatts. Experimental switchboards containing a total of 30 panels afford distribution and control.

The instrument room contains standards for the calibration of commercial instruments of all types, two hundred and fifty portable instruments for experimental work, and a 240 ampere-hour storage battery. The graduate laboratory contains apparatus for research including four oscillographs, one 2,000-cycle alternator, one 200,000-volt transformer, one 1,000-ampere direct current generator, and apparatus for high voltage direct current investigations. The photometer room contains apparatus for tests of the various light sources. Two special 100-line switchboards are connected with cables and apparatus for experiments in telephony. The equipment for electrometallurgical work includes one 30-kilowatt induction furnace, one 25-kilowatt arc furnace, two 30-kilowatt resistance furnaces, one 15-kilowatt vacuum furnace for melting, one 3-kilowatt vacuum furnace for annealing and one 1.5-kilowatt muffle furnace.

## **MECHANICAL ENGINEERING**

The courses in mechanical engineering are planned to present the theory and practise of the generation and transmission of power, and of the design, construction, operation, and testing of machinery of all kinds. In the laboratories emphasis is given to the engineering and economic principles of machine construction and to problems of scientific shop management.

### **Equipment**

*The Designing Rooms* are supplied with drawing tables, and with reference books, files of trade catalogs, gear charts, and collections of blue prints. A collection of kinematic models, sectional steam specialties, lantern slides, and photographs is also available.

*The Mechanical Engineering Laboratory* is equipped with machines and testing instruments for instruction in steam engineering, gas power engineering, refrigeration, heating and ventilation, including a 210-horsepower experimental boiler, equipped with chain-grate stoker, fuel economizer, and induced draft; a separately fired steam superheater; types of throttling, high-speed automatic, and Corliss steam engines; steam condensers; a compound two-stage air compressor; a large compound duplex steam pump; a Kerr steam turbine; a DeLaval turbo-pump; a 200,000-pound Lea water-flow; a 10-ton ammonia compression refrigerating machine; a 10-ton ammonia absorption refrigerating machine; typical gas, gasoline, and oil engines; a 50-horsepower suction gas producer, house-heating boilers and furnaces; a 150-horsepower electric absorption and transmission dynamometer; and apparatus for instruction in heating and ventilation and the mechanical equipment of buildings. The central heating and power plant contains types of boilers, stokers, pumps, and engines in commercial service.

*The Shop Laboratories* are provided with machinery and apparatus to illustrate the process of the manufacture of machinery. The laboratories include the *Wood Shop* with

an equipment of benches, lathes, machinery, and small tools needed in pattern construction; the *Foundry* equipped with cupola, brass furnaces, core ovens, molding machines, and facilities for bench and floor molding; the *Forge Shop* equipped with forges, anvils and small tools, a steam hammer, a power-driven punch and shear, and with gas and electric furnaces; and the *Machine Shop* with an equipment of lathes, planers, shapers, milling machines, grinders, boring mills, drill presses, and with typical small tools and fixtures used in manufacturing.

### MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of engineering.

The *Laboratory of Applied Mechanics* comprises the materials testing laboratory and the hydraulics laboratory. The equipment of the *Materials Testing Laboratory* includes testing machines and apparatus for making physical tests of materials of construction, such as tension, compression, flexure, shearing, torsion, hardness, and impact tests, and tests under repeated load. The laboratory contains machines of capacity for testing full size structural and machine members. Among these there is a universal machine of six hundred thousand pounds capacity. Facilities are provided for making, curing, and testing concrete and reinforced concrete test specimens. The *Hydraulics Laboratory* has facilities for furnishing water under a range of pressures and volumes. There is an equipment of devices for measuring and recording the flow of water, including measuring pits, water meters, weir channels, nozzles, pitometer, and Venturi meters. In the equipment are pumps, a standpipe, water motors, and a turbine water wheel for testing purposes. A supply of pressure gauges, weighing scales, and other auxiliary apparatus is provided.

### MINING ENGINEERING

The department of mining engineering offers courses of instruction in mining and metallurgical engineering to train men for the various phases of the mineral industry.

The work of the department adds to the preliminary courses in mathematics, languages, chemistry, physics, and general engineering, that are common to all courses in engineering, specialized work in mine surveying, mining methods, geology, prospecting, mine examination and valuation, ventilation, mining machinery, coal washing and ore concentration, metallurgy, utilization of fuels, administration and organization of mines, mining law, and the design of mining and metallurgical structures.

There are three distinct options, coal mining, ore mining and metallurgical engineering, and by means of the electives offered, a student can also specialize along the geological phases of mining, including work in oil prospecting and development.

In addition to its work of instruction, the department concerns itself with the development and dissemination of scientific facts of service in improving the practise of mining, with reference to efficiency in operation, the security of life in the mines, and the conservation of the mineral resources of the State.

#### Equipment

The drawing room contains the catalogs of the manufacturers of mining machinery with a complete card index, the standard reference books on mine and mill design, and an unusually complete collection of photographs, blue-prints and drawings of mines, mine structures, and ore and coal preparation, and metallurgical plants.

The mine-gas and safety lamp laboratory contains safety lamps of different types, electric and magnetic locking appliances, a photometer, a dark room for photometric work,

Ryan, Oldham, and Hailwood safety-lamp testing apparatus, appliances for gas and dust analysis and explosibility tests, and a Bacharach hydro volume and pressure recorder.

The coal washing and ore dressing laboratory contains for crushing, rolls, gyratory and jaw crushers, and a 500-pound 3-stamp battery; for screening and sizing, trommels, shaking and vibrating screens, and classifiers; for concentrating and cleaning, pan, piston and pulsating jigs, bumping table, vanner, sand, concentrating table, and slimer. These machines can handle 3 to 5 tons of coal and one ton of ore an hour. There are also a complete sampling and drying equipment, a cyanide testing plant, a Huff electrostatic machine, flotation units, a magnetic separator and other appliances used for preliminary testing. Adjoining this laboratory is a chemical and assay laboratory equipped for the analytical work required in connection with coal washing and ore concentration.

The explosives and drilling laboratory contains types of rock and coal drills, an air meter, a diamond drill, chain and puncher, coal cutters, and a complete outfit for demonstrating the use of explosives.

### MUNICIPAL AND SANITARY ENGINEERING

This curriculum is designed to train students for the duties of the engineer employed on the design, construction, and operation of public works and public utilities, and for general engineering work.

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering curriculum. Chemistry and bacteriology of water supply and sewage disposal are given; and instruction in mechanical and electrical engineering in the generation and transmission of power.

The hydraulic laboratory is well equipped with apparatus illustrating the laws of hydraulics as applied in waterworks and sewerage practise, and it also contains a small rapid sand filter, a small slow sand filter, several arrangements of dosing siphons, a model of a water purification plant and models illustrating the disposal of sewage by Imhoff tanks, sprinkling filters, and sand filters. Opportunities for practise and study are provided at the filter plant of the Champaign and Urbana Water Company, and at the experimental sewage plant of the State Water Survey Division.

### PHYSICS

The department of physics occupies the Laboratory of Physics. This building supplies facilities and equipment for instruction and investigation in physics. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents are available in all parts of the building. There is a collection of over 4,000 pieces of apparatus, and only a small part of the equipment is antiquated. New investigations can usually be started with the apparatus on hand. There are two workshops, one for advanced students and instructors, and one for the mechanicians of the department. The students' shop is equipped with lathes, drill press, and bench tools. The mechanician's shop contains lathes, milling machines, drill press, and other facilities for fine machine work.

The University Library contains sets of journals of physics and the related sciences in English, French, and German. The recent volumes of the physical journals, together with a collection of text-books, encyclopedias, dictionaries, and other reference books, are in the special library of the Laboratory.

**RAILWAY ENGINEERING<sup>1</sup>**

The department of railway engineering is organized to train students for service in the technical departments of railways. It offers curriculums in railway civil engineering, railway electrical engineering, and railway mechanical engineering, all three of which are substantially the same as the corresponding civil, electrical, and mechanical engineering curriculums to the middle of the third year, after which is given in each course a group of subjects relating to the technical problems of steam or electric railways. The curriculums in railway civil and railway mechanical engineering are designed for those who wish to enter steam railway service in the engineering and motive power departments respectively, while the curriculum in railway electrical engineering is intended for those who will serve on electric railways or in the electrical departments of steam roads. The special subjects of the curriculum in railway civil engineering concern the location, design, construction, and maintenance of railway track and equipment, and the design of railway structures. The courses in railway electrical engineering deal with the design and construction of electrical railway equipment, the operation and performance of electric cars and locomotives and with the problems which arise in the electrification of steam lines. The curriculum in railway mechanical engineering adds to the fundamentals of the general mechanical engineering curriculum special railway courses on the design of locomotives and cars, the resistance of trains, the performance and tests of locomotives, and tests of railway equipment.

**Equipment**

A locomotive testing plant, built from the original designs of the department, occupies a building forty by one hundred fifteen feet. The plant is devoted exclusively to making tests to determine the performance of locomotives. The locomotives tested have, for the most part, been furnished by certain railroad companies. Permanent arrangements are contemplated under which it may be possible to maintain in the plant a locomotive of the latest design.

For purposes of instruction a light freight locomotive is permanently available in this laboratory. This locomotive, donated to the department by the Illinois Central Railroad, is of the mogul type, has 19x26 simple cylinders using saturated steam, 1,530 square feet of heating surface, 26 square feet of grate area, and weighs with its tender 206,000 pounds.

The department owns and operates, jointly with the Illinois Central Railroad, a railway test car designed for experimental work on steam roads. It is equipped for making train resistance and locomotive performance tests, and during the last fifteen years has been in frequent operation in carrying on resistance and tonnage rating tests on the Illinois Central Railroad and on several eastern roads.

For work on electric roads the department owns an electric test car, of the interurban type, designed and built for the University. It is equipped with four 50-horsepower direct current motors and with the Westinghouse multiple control system, and is provided with instruments for recording power, speed, acceleration, and the other data needed in road tests, and for measuring and recording the electric resistance of rail bonds. Through the courtesy of the Illinois Traction System this car is operated on its lines, which enter the campus of the University.

The department laboratory equipment includes a drop-testing machine and a brake-shoe testing machine, both constructed in accordance with the standards of the Master Car Builders' Association. The drop-testing machine is designed for use in testing the strength of railroad rails, car axles, car couplers, and draft gears; and may be used in studies of the physical properties of structural materials of any sort. The brake-shoe testing machine supplies means for determining the wearing properties and frictional qualities of brake-shoes, such as are employed in regular service on railroad trains.

<sup>1</sup>See also *School of Railway Engineering and Administration*, page 199.

Much of the work in the railway courses is given in the departments of civil, electrical, and mechanical engineering, and the shop and laboratory equipment of these departments is available for students in the railway department.

Three steam roads—the Illinois Central, the Cleveland, Cincinnati, Chicago & St. Louis, and the Wabash railroads—and two electric interurban roads—the Illinois Traction System and the Kankakee and Urbana railway—enter Champaign and Urbana. The department is afforded opportunities by them for practical road tests and field work.

### **NON-TECHNICAL ELECTIVES**

The non-technical electives for students in the College of Engineering are subject to the following restrictions:

1. They are restricted to courses offered in the College of Liberal Arts and Sciences and in the College of Commerce, and courses 1 to 10 in Music.
2. Such courses must not be open to freshman students.
3. The courses must be approved by the head of the department in which the student making the election is registered.
4. Students in the College of Engineering electing the third and fourth years work in the Reserve Officers' Training Corps may substitute the four hours credit thus received for three hours of the required non-technical electives.

### **GENERAL ENGINEERING LECTURES FOR FRESHMEN**

One general lecture, sufficiently popular in character to interest and inspire young students, will be given each week. All freshmen engineering students are required to attend this lecture.

### **SHORT COURSES FOR METERMEN**

In March, 1920, the Illinois Public Utilities Association gave the University the sum of \$500 to pay the expenses of a two-weeks' course of instruction in meter reading, testing, and repairing.

### **Engineering Foundation and National Research Council Co-operative Funds for the Investigation of the Fatigue of Metals**

A fund has been given to the University by the National Research Council and the Engineering Foundation to be used for an investigation on the fatigue phenomena of metals.

### **TRIPS OF INSPECTION**

Students in the College of Engineering are required to make a trip of inspection during their senior year. Such trips supply an opportunity to inspect the work of industrial establishments and of engineering enterprises. They usually occupy from three to four days, and are taken during term time, under the supervision of University authorities. They involve an expense of approximately \$25 to \$30 to each student. For the year 1920-21, the trips occurred on November 22, 23, 24, 1920.

No student not in line for graduation shall be permitted to go on the annual inspection trip of the College of Engineering without the approval of the General Committee on Inspection Trips.

### **CURRICULUMS AND DEGREES**

The curriculums leading to the degree of Bachelor of Science in the College of Engineering are given herewith in full. Each of the twelve curriculums given may ordinarily be completed in a period of four years.

A graduate of the University of Illinois in architectural, ceramic, civil, electrical, mechanical, mining, municipal and sanitary, or railway engineering may receive the degree



of an allied curriculum on the completion of from thirty to thirty-six semester hours work approved by the faculty. This work may ordinarily be done in one academic year.

A graduate of the College of Liberal Arts and Sciences of the University of Illinois, or of any college of equal standing, whose mathematical training includes the calculus, who has had an acceptable course in physics, and sufficient training in mechanics to enable him to begin the mechanics of the junior year, may receive the degree of Bachelor of Science in Engineering on the completion of sixty-eight credit hours of work in engineering under the direction of the faculty. This work may be ordinarily done in two academic years. Candidates for the degree in the department of architecture are not required to be prepared in calculus or mechanics, but should have special preparation in drawing.

### Rhetoric Prerequisite for Junior Standing

Rhetoric 1 and 2 are prerequisites for junior standing in the College of Engineering, and on student in this College shall be permitted to register in more than eight hours of prescribed junior work without having passed or being registered in Rhetoric 1 or 2.

#### Curriculum in Architecture

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Arch. 31—Arch. and Freehand Drawing.....	4	Arch. 32—Arch. and Freehand Drawing.....	4
G. E. D. 2—Descriptive Geometry.....	4	Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4
Math. 4—Advanced Algebra.....	3	T. and A. M. 14—Elementary Mechanics.....	4
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Physical Education 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Eng. Lecture.....	0
Mil. 1b—Military Theory.....	$\frac{1}{2}$		
Eng. Lecture.....	0		
Total.....	18	Total.....	16-17
SECOND YEAR		THIRD YEAR	
Arch. 13—History of Architecture.....	2	Arch. 14—History of Architecture.....	2
Arch. 23—Freehand Drawing.....	2	Arch. 24—Freehand Drawing.....	2
Arch. 33—Design.....	3	Arch. 34—Design.....	3
Arch. 43—Technology of Materials.....	3	Arch. 44—Technology of Materials.....	3
Phys. 9a—Physics Lectures.....	2	Phys. 9b—Physics Lectures.....	2
Phys. 10a—Physics Laboratory.....	2	Phys. 10b—Physics Laboratory.....	2
T. and A. M. 15—Strength of Materials.....	3	T. and A. M. 16—Strength of Materials.....	3
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18
FOURTH YEAR		FOURTH YEAR	
Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2
Arch. 25—Freehand Drawing.....	2	Arch. 26—Freehand Drawing.....	2
Arch. 35—Design.....	5	Arch. 36—Design.....	5
Arch. 45—Graphic Statics.....	3	Arch. 46—Roofs.....	3
Arch. 65—Theory of Architecture.....	1	Arch. 55—Building Sanitation.....	1
E. E. 90—Building Illumination.....	1	Arch. 66—Theory of Architecture.....	1
French or German.....	4	French or German.....	4
Total.....	18	Total.....	18
FOURTH YEAR		FOURTH YEAR	
Arch. 27—Freehand Drawing.....	2	Arch. 28—Freehand Drawing.....	2
Arch. 37—Design.....	7	Arch. 38—Advanced Design or Thesis.....	7
Arch. 68—Specifications.....	3	Arch. 60—Special Lectures.....	1
Arch. 99—Inspection Trip.....	0	Arch. 67—Theory of Form.....	2
M. E. 25—Heating and Ventilation.....	2	Non-technical Elective <sup>3</sup> .....	5
Non-technical Elective <sup>3</sup> .....	3		
Total.....	17	Total.....	17

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

<sup>3</sup>Any approved non-technical course. See page 150.

## Curriculum in Architectural Engineering

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4		
G. E. D. 1—Elements in Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4		
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	5		
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3		
Rhet. 1—Rhetoric and Themes.....	2	Phys. Ed. 2—Gymnasium.....	1		
Physical Education 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$		
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$		
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Eng. Lecture.....	0		
Mil. 1b—Military Theory.....	$\frac{1}{2}$				
Eng. Lecture.....	0				
Total.....	17-18	Total.....	18		
SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Arch. 13—History of Architecture.....	2	Arch. 14—History of Architecture.....	2		
A. E. 33—Arch. and Freehand Drawing.....	3	A. E. 34—Design.....	3		
A. E. 43—Technology of Materials.....	2	A. E. 44—Technology of Materials.....	2		
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3		
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2		
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2		
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3		
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$		
		Mil. 4b—Military Theory.....	$\frac{1}{2}$		
Total.....	18	Total.....	18		
THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2		
A. E. 35—Design.....	3	A. E. 36—Design.....	3		
A. E. 45—Graphic Statics.....	3	A. E. 46—Graphic Statics.....	3		
Language.....	4	Language.....	4		
T. and A. M. 25—Resistance of Metals.....	4	T. and A. M. 26—Analytical Mechanics and Hydraulics.....	4		
Non-technical Elective <sup>1</sup> .....	2	Non-technical Elective <sup>2</sup> .....	2		
Total.....	18	Total.....	18		
FOURTH YEAR		FIFTH YEAR		SIXTH YEAR	
	Hours <sup>1</sup>				Hours <sup>1</sup>
A. E. 47—Architectural Engineering.....	5	A. E. 48—Architectural Engineering.....	5		
A. E. 57—Fireproof Construction.....	2	A. E. 58—Fireproof Construction.....	2		
A. E. 09—Inspection Trip.....	0	A. E. 67—Building Sanitation.....	2		
E. E. 02—Lighting and Wiring.....	2	A. E. 68—Estimates and Specifications.....	4		
M. E. 23—Mechanical Equipment of Buildings.....	5	Non-technical Elective <sup>3</sup> .....	3		
Non-technical Elective <sup>3</sup> .....	3				
Total.....	17	Total.....	16		

## Curriculum in Ceramic Engineering

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4		
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4		
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5		
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3		
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1		
Phys. Ed. 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$		
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$		
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Engineering Lecture.....	0		
Mil. 1b—Military Theory.....	$\frac{1}{2}$				
Engineering Lecture.....	0				
Total.....	17 or 18	Total.....	18		
SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 5a—Quantitative Analysis.....	5	Chem. 5b—Quantitative Analysis.....	5		
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3		
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2		
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2		
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3		
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$		
Cer. 1—Ceramic Materials.....	3	Mil. 4b—Military Theory.....	$\frac{1}{2}$		
		Cer. 2—Winning and Preparation of Clays.....	3		
Total.....	19	Total.....	19		

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.<sup>3</sup>Any approved non-technical course. See page 150.

THIRD YEAR			
Cer. 12—Designing and Shaping.....	3	Cer. 3—Industrial Calculations.....	3
Chem. 65—Gas and Fuel Analysis.....	2	Cer. 5—Ceramic Bodies.....	5
French or German.....	4	C. E. 76—Surveying.....	2
T. and A. M. 21—Analytical Mechanics.....	2	French or German.....	4
T. and A. M. 25—Resistance of Materials.....	4	Non-technical Elective <sup>1</sup> .....	3
Non-technical Elective <sup>1</sup> .....	3		
Total.....	18	Total.....	17
FOURTH YEAR			
Cer. 4—Drying and Burning.....	5	Cer. 9—Ceramic Construction.....	4
Cer. 6—Glazes.....	6	M. E. 62—Power Measurement.....	3
Cer. 17—Physical Chemistry.....	4	Non-technical Elective <sup>1</sup> .....	3
Cer. 99—Inspection Trip.....	0	Thesis or (with the approval of the Department) Technical Elective.....	3 or 5
Technical Elective.....	3	Technical Elective.....	2 or 0
Total.....	18	Total.....	15

## Curriculum in Civil Engineering

## FIRST YEAR

FIRST SEMESTER	Hours <sup>2</sup>	SECOND SEMESTER	Hours <sup>2</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Inorganic Chemistry.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 13—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1.....	½	Mil. 2a—Military Drill.....	½
Hygiene 1.....	½	Mil. 2b—Military Theory.....	½
Mil. 1a—Military Drill.....	½	Engineering Lecture.....	0
Mil. 1b—Military Theory.....	½		
Engineering Lecture.....	0		
Total.....	18	Total.....	18

## SECOND YEAR

C. E. 27—Plain Surveying.....	3	C. E. 28—Higher Surveying.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	½	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	½	Mil. 4a—Military Drill.....	½
		Mil. 4b—Military Theory.....	½
Total.....	18	Total.....	18

## THIRD YEAR

C. E. 51—Railroad Surveying.....	5	C. E. 52—Roads and Pavements.....	3
M. E. 1—Steam Engines and Boilers.....	3	C. E. 60—Structural Stresses.....	4
T. and A. M. 21—Analytical Mechanics.....	2	C. E. 62—Structural Details.....	2
T. and A. M. 29—Resistance of Materials.....	2	C. E. 70—Seminar.....	1
Non-technical Elective <sup>1</sup> .....	3	T. and A. M. 10—Hydraulics.....	3
		Non-technical Elective <sup>1</sup> .....	3
Total.....	18	Total.....	16

## FOURTH YEAR

C. E. 95—Plain Concrete.....	2	C. E. 80—Contracts and Specifications.....	2
C. E. 81—Theory of Reinforced Concrete.....	2	C. E. 82—Concrete Design.....	4
C. E. 85—Steel Bridge Design.....	5	Non-technical Elective <sup>1</sup> .....	3
C. E. 99—Inspection Trip.....	0	Technical Electives <sup>4</sup> .....	9
M. and S. E. 2—Water Supply Engineering.....	4		
Technical Electives <sup>4</sup> .....	6		
Total.....	18	Total.....	18

TECHNICAL ELECTIVES<sup>4</sup>—FOURTH YEAR

FIRST SEMESTER	Hours <sup>2</sup>	SECOND SEMESTER	Hours <sup>2</sup>
C. E. 37—Map Reading and Military Sketching.....	2	C. E. 78—Drainage Engineering.....	3
C. E. 75—Stream Flow.....	2	C. E. 86—Public Service Engineering.....	3
C. E. 77—Masonry Construction.....	4	C. E. 94—Highway Administration.....	3
C. E. 87—Advanced Bridge Analysis.....	2	C. E. 96—Road Materials.....	2
C. E. 93—Highway Design.....	2	C. E. 98—Thesis.....	2
C. E. 97—Thesis.....	3	Chem. 73—Asphalts, Tars, etc.....	2
Min. 2—Mining Principles.....	3	E. E. 4—Electrical Engineering.....	2
		E. E. 64—Electrical Engineering Lab.....	1
		M. and S. E. 3—Sewerage.....	3
		M. and S. E. 9—Hydraulic Design and Construction.....	2
		R. E. 33—Economics of Railway Location.....	4

<sup>1</sup>Any approved non-technical course. See page 150.<sup>2</sup>Semester hours. For definition, see page 253.<sup>3</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.<sup>4</sup>Students desiring to specialize in Structural Engineering should elect C. E. 77 and 87. Students desiring to specialize in Highway Engineering should elect C. E. 93, 94, 96, and Chem. 73.

## Curriculum in Electrical Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Engineering Lecture.....	0
Mil. 1b—Military Theory.....	$\frac{1}{2}$		
Engineering Lecture.....	0		
Total.....	17 or 18	Total.....	18

## SECOND YEAR

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
M. E. 75 and 77—Forge and Foundry, or M. E. 79—Pattern Work.....	3	M. E. 75 and 77—Forge and Foundry, or M. E. 79—Pattern Work.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

## THIRD YEAR

E. E. 25—Direct Current Apparatus.....	4	E. E. 26—Alternating Currents.....	4
E. E. 75—Elec. Eng. Laboratory.....	2	E. E. 76—Elec. Eng. Laboratory.....	2
Math. 9a—Integral Calculus.....	2	M. E. 2—Steam Engineering.....	3
M. E. 81—Machine Work.....	3	Phys. 44b—Elec. and Mag. Measurement.....	2
Phys. 44a—Elec. and Mag. Measurement.....	3	T. and A. M. 26—Anal. Mechanics and Hy- draulics.....	4
T. and A. M. 25—Resistance of Materials....	4	Non-technical Elective <sup>2</sup> .....	3
Total.....	18	Total.....	18

## FOURTH YEAR

E. E. 99—Inspection Trip.....	0	E. E. 96—Seminar.....	1
E. E. 95—Seminar.....	0	E. E. 36—Alternating Current Apparatus.....	4
E. E. 35—Alternating Current Apparatus....	4	E. E. 86—Elec. Eng. Laboratory.....	2
E. E. 85—Elec. Eng. Laboratory.....	2	E. E. 56—Electrical Design.....	4
E. E. 55—Electrical Design.....	2	E. E. 98—Thesis or Elective.....	3
M. E. 61—Power Measurement.....	2	Non-technical Elective <sup>2</sup> .....	3
M. E. 11—Thermodynamics.....	3		
Non-technical Elective <sup>2</sup> .....	3		
Total.....	17	Total.....	17

## Curriculum in Mechanical Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Engineering Lecture.....	0
Mil. 1b—Military Theory.....	$\frac{1}{2}$		
Engineering Lecture.....	0		
Total.....	17 or 18	Total.....	18

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.<sup>3</sup>Any approved non-technical course. See page 150.

## SECOND YEAR

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
M. E. 75 and 79—Forge and Pattern Work or		M. E. 75 and 79—Forge and Pattern Work or	
M. E. 77—Foundry.....	3	M. E. 77—Foundry.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

## THIRD YEAR

Math. 9a—Integral Calculus.....	2	M. E. 4—Steam Engineering.....	3
M. E. 13—Thermodynamics.....	3	M. E. 14—Thermodynamics.....	2
M. E. 81—Machine Work.....	3	M. E. 30—Mechanics of Machinery.....	5
T. and A. M. 21—Analytical Mechanics.....	2	M. E. 64—Power Measurement.....	3
T. and A. M. 29—Resistance of Materials.....	5	M. E. 82—Machine Work.....	2
Non-technical Elective <sup>1</sup> .....	3	Non-technical Elective <sup>1</sup> .....	3
Total.....	18	Total.....	18

## FOURTH YEAR

E. E. 11—Direct Current Apparatus.....	3	E. E. 12—Alternating Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1	E. E. 62—Alternating Current Laboratory.....	1
M. E. 15—Gas Power Engineering, or		M. E. 15—Gas Power Engineering, or	
M. E. 37—Principles of Management.....	3	M. E. 37—Princ. of Management.....	3
M. E. 43—Engineering Design.....	5	M. E. 26—Heating and Ventilation.....	3
M. E. 65 <sup>2</sup> —Power Laboratory.....	3	M. E. 32 <sup>2</sup> —Power Transmission.....	3
M. E. 99—Inspection Trip.....	0	M. E. 34—Aeronautic Engineering.....	
Non-technical Elective <sup>1</sup> .....	3	or	
		Chem. 16—Fuel, Gas, and Water Analysis ...	3
Total.....	18	M. E. 52—Power Plant Design.....	3
		Total.....	15

## Curriculum in Mining Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>3</sup>		Hours <sup>3</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3-4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Physical Education 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Eng. Lecture.....	0
Mil. 1b—Military Theory.....	$\frac{1}{2}$		
Eng. Lecture.....	0		
Total.....	17-18	Total.....	18

## SECOND YEAR

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1a—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3a—Physics Laboratory.....	2
Min. 1—Earth and Rock Excavation.....	3	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Geology 43—Engineering Geology.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
		Mil. 2b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

## THIRD YEAR

Chem. 5a—Quantitative Analysis.....	5	Min. 4—Mining Methods.....	3
T. and A. M. 25—Resistance of Materials....	3	T. and A. M. 26—Analytical Mechanics and	
Geol. 20—Mineralogy.....	3	Hydraulics.....	4
Min. 61—Elementary Mine Surveying.....	3	C. E. 58—Graphic Statics.....	2
M. E. 1—Steam and Air Machinery.....	3	Min. 10—Electrical Engineering of Mines....	3
		Min. 62—Mine Surveying.....	3
		Non-technical elective <sup>1</sup> .....	3
Total.....	18	Total.....	18
Metallurgists take Chem. 7 instead of Mining	61	Metallurgists take Chem. 7a and 5b and drop Mining	
		4 and N. T. E.	

<sup>1</sup>Any approved non-technical course. See page 150.<sup>2</sup>Not given in 1920-21 { M. E. 33—Aeronautic Engineering, 3 hrs. or }  
T. A. M. 41—3 hrs. or } May be substituted in 1920-21  
C. E. 81—2 hrs. plus an additional hour }<sup>3</sup>Semester hours. For definition, see page 253.

## FOURTH YEAR

## Coal Mining Option

Chem. 7—Metallurgy.....	3	Min. 8—Mine Law, Adm. and Accounts. ....	3
Chem. 65—Technical Gas and Fuel Analysis. ....	2	Min. 13—Utilization of Fuels.....	2
Min. 5—Mine Ventilation.....	3	Min. 6—Mechanical Engineering of Mines.....	3
Min. 9—Coal and Ore Preparation.....	3	Min. 64—Coal Preparation Laboratory.....	3
Min. 41—Principles of Coal Plant Design.....	3	Min. 42—Coal Plant Design.....	2
Min. 21—Mine Examination and Valuation.....	2	Min. 90—Mining and Metallurgical Reports.....	2
Min. 99—Inspection Trip.....	0		
Non-technical Elective <sup>1</sup> .....	3		
Total.....	19	Total.....	15

## FOURTH YEAR

## Ore Option

Chem. 7—Metallurgy.....	3	Geol. 96—Economic Geology (Ore Deposits).....	3
Chem. 69—Metallurgical Laboratory and As- saying.....	2	Min. 8—Mine Law, Adm. and Accounts.....	3
Min. 15a—Principles of Mine Ventilation.....	2	Min. 6—Mechanical Engineering of Mines.....	3
Min. 19—Ore and Coal Preparation.....	3	Min. 66—Ore Concentration Laboratory.....	3
Min. 21—Mine Examination and Valuation.....	2	Min. 90a—Mining and Metallurgical Reports.....	2
Min. 43—Principles of Ore Plant Design.....	3	Min. 44—Ore Plant Design.....	2
Min. 99—Inspection Trip.....	0		
Non-technical elective <sup>1</sup> .....	3		
Total.....	18	Total.....	18

## FOURTH YEAR

## Metallurgical Option

Chem. 65—Technical Gas and Fuel Analysis.....	2	Chem. 78—Metallography.....	2
Chem. 69—Metallurgical Laboratory and As- saying.....	2	Min. 8—Mine Law, Adm. and Accounts.....	3
Min. 17a—Problems.....	2	Min. 12—Utilization of Fuels.....	2
Min. 19—Ore and Coal Preparation.....	3	Min. 66—Ore Concentration Laboratory.....	3
Min. 45—Principles of Mill and Smelter Design.....	3	Min. 90a—Mining and Metallurgical Reports.....	2
Min. 61—Elementary Mine Surveying.....	3	Min. 46—Mill and Smelter Design.....	2
Min. 99—Inspection Trip.....	0	Non-technical elective <sup>1</sup> .....	3
Non-technical elective <sup>1</sup> .....	3		
Total.....	18	Total.....	17

## Curriculum in Municipal and Sanitary Engineering

## FIRST YEAR

## FIRST SEMESTER

Hours<sup>1</sup>

Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4
G. E. D. 1—Elements of Drafting.....	4
Math. 2—Advanced Algebra.....	3
Math. 4—Trigonometry.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 1.....	$\frac{1}{2}$
Hygiene 1.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$
Engineering Lecture.....	0

Total.....17 or 18

## SECOND SEMESTER

Hours<sup>1</sup>

Chem. 4—Qualitative Analysis.....	4
G. E. D. 2—Descriptive Geometry.....	4
Math. 6—Analytic Geometry.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Military Theory.....	$\frac{1}{2}$
Engineering Lecture.....	0

Total.....18

## SECOND YEAR

C. E. 27—Plane Surveying.....	3	C. E. 28—Higher Surveying.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

## THIRD YEAR

Bact. 6—Bacteriology.....	2 $\frac{1}{2}$	C. E. 52—Roads and Pavements.....	3
Chem. 10b—Water Analysis.....	2 $\frac{1}{2}$	C. E. 60—Structural Stresses.....	4
C. E. 53—Railroad Surveying.....	3	C. E. 62—Structural Details.....	2
T. and A. M. 21—Analytical Mechanics.....	2	M. E. 2—Steam Engineering.....	3
T. and A. M. 29—Resistance of Materials.....	5	T. and A. M. 10—Resistance of Materials.....	3
Non-technical Elective <sup>1</sup> .....	2	Non-technical Elective <sup>1</sup> .....	2
Total.....	17	Total.....	17

<sup>1</sup>Any approved non-technical course. See page 150.<sup>2</sup>Semester hours. For definition, see page 253.<sup>3</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

## FOURTH YEAR

C. E. 77—Masonry Construction.....	4	C. E. 80—Contracts and Specifications.....	2
C. E. 79—Cement Laboratory.....	1	E. E. 4—Elementary Electrical Engineering..	2
C. E. 81—Reinforced Concrete.....	2	E. E. 64—Electrical Engineering Lab.....	1
M. and S. E. 10—Water and Sewerage Labor- atory work.....	2	M. and S. E. 3—Sewerage.....	3
M. and S. E. 2—Water Supply Engineering..	4	M. and S. E. 6b—Water Purification and Sew- age Disposal.....	2
M. and S. E. 6a—Water Purification and Sew- age Disposal.....	3	M. and S. E. 9—Hydraulic Design and Con- struction.....	2
M. and S. E. 99—Inspection Trip.....	0	M. and S. E. 98—Thesis or Approved Elective	3
Non-technical Elective <sup>1</sup> .....	2	Non-technical Elective <sup>1</sup> .....	2
Total.....	18	Total.....	17

## Curriculum in General Engineering Physics

(Leading to the Degree of B.S.)

The object of this curriculum is to fit persons for investigation of general engineering problems calling for a knowledge of physics and mathematics. Students who expect to teach physics and allied subjects in engineering schools will also find this curriculum of interest.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>2</sup>		Hours <sup>2</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Engineering Lecture.....	0
Mil. 1b—Military Theory.....	$\frac{1}{2}$		
Engineering Lecture.....	0		
Total.....	17 or 18	Total.....	18

## SECOND YEAR

German 1—Elementary German or French 1a.....	4	Math. 9—Integral Calculus.....	3
Math. 7—Differential Calculus.....	5	German 3—Narrative Prose or French.....	4
Chem. 5a—Elementary Quantitative Analysis	4	Chemistry (Elective).....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b or 1bx—Physics Lectures.....	2 or 3
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	19	Total.....	18-19

## THIRD YEAR

Math. 9a—Advanced Calculus.....	2	Phys. 44b—Electrical Measurements.....	2
Phys. 44a—Electrical Measurements.....	3	Phys. 17 and 37—Light or	
Phys. 16 and 36—Heat.....	3	Phys. 23 and 33—Sound.....	3
E. E. 25—D. C. Theory.....	4	M. E. 62—Power Measurement.....	3
E. E. 75—D. C. Laboratory.....	2	E. E. 26—Alternating Current Theory.....	4
T. and A. M. 25—Resistance of Materials..	4	E. E. 76—Alternating Current Laboratory..	2
		Electives <sup>4</sup> .....	3-4
Total.....	18	Total.....	17-18

## FOURTH YEAR

Phys. 14a—Dynamics.....	3	Math. 17—Differential Equations.....	3
Phys. 31a—Special Investigation.....	3	Phys. 24—Properties of Matter or	
Math. 16—Adv. Cal. and Diff. Equations...	3	Phys. 30—Introduction to Theoretical Elec- tricity.....	3
M. E. 11—Thermodynamics.....	3	Phys. 31b—Thesis.....	3
Physics Colloquium.....	0	Chem. 31—Physical Chemistry.....	4
Elective <sup>4</sup> .....	3-5	Elective <sup>4</sup> .....	3-4
Total.....	15-17	Total.....	16-17

<sup>1</sup>Any approved non-technical course. See page 150.<sup>2</sup>Semester hours. For definition, see page 253.<sup>3</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.<sup>4</sup>At least nine hours of electives must be non-technical and the number selected should be such as to give a total of 141 or 142 semester hours, depending upon whether Chem. 1a or 1b is taken.

## Curriculum in Railway Civil Engineering

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3-4	Chem. 4—Qualitative Analysis.....	4		
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4		
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5		
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3		
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1		
Phys. Ed. 1.....	$\frac{1}{2}$	Mil. 1a—Military Drill.....	$\frac{1}{2}$		
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$		
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Engineering Lecture.....	0		
Mil. 1b—Military Theory.....	$\frac{1}{2}$				
Engineering Lecture.....	0				
Total.....	17-18	Total.....	18		
SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours		Hours		Hours
C. E. 27—Surveying.....	3	C. E. 28—Topographic Surveying.....	3		
Language.....	4	Language.....	4		
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3		
Physics 1a—Physics Lectures.....	3	Physics 1b—Physics Lectures.....	2		
Physics 3a—Physics Laboratory.....	2	Physics 3b—Physics Laboratory.....	2		
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3		
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$		
Total.....	18	Mil. 4b—Military Theory.....	$\frac{1}{2}$		
		Total.....	18		
THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
	Hours		Hours		Hours
C. E. 51—Railroad Surveying.....	5	C. E. 60—Structural Stresses.....	4		
M. E. 1—Steam and Air Machinery.....	3	C. E. 62—Structural Details.....	2		
R. E. 25—Railway Development.....	3	R. E. 32—Railway Construction.....	3		
T. and A. M. 21—Analytical Mechanics.....	2	R. E. 36—Railway Maintenance.....	3		
T. and A. M. 29—Resistance of Materials.....	5	T. and A. M. 10—Hydraulics.....	3		
Total.....	18	Non-technical Elective <sup>3</sup> .....	3		
		Total.....	18		
FOURTH YEAR		FIFTH YEAR		SIXTH YEAR	
	Hours		Hours		Hours
C. E. 77—Masonry Construction.....	4	C. E. 80—Contracts and Specifications.....	2		
C. E. 81—Reinforced Concrete Theory.....	2	E. E. 4—Elem. Electrical Eng.....	2		
C. E. 83—Bridge Design.....	3	E. E. 64—Elec. Engineering Lab.....	1		
C. E. 95—Plain Concrete.....	2	R. E. 33—Railway Location.....	4		
R. E. 31—Ry. Yards and Terminals.....	3	R. E. 51—Seminar.....	1		
R. E. 35—Railway Signaling.....	1	R. E. 38—Thesis (or technical elective) <sup>4</sup> .....	3		
R. E. 37—Railway Maintenance.....	2	Non-technical Elective <sup>3</sup> .....	4		
R. E. 99—Inspection Trip.....	0				
Total.....	17	Total.....	17		

## Curriculum in Railway Electrical Engineering

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3-4	Chem. 4—Qualitative Analysis.....	4		
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4		
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5		
Math. 4—Plane Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3		
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1		
Phys. Ed. 1.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$		
Hygiene 1.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$		
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Eng. Lecture.....	0		
Mil. 1b—Military Theory.....	$\frac{1}{2}$				
Eng. Lecture.....	0				
Total.....	17-18	Total.....	18		
SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours		Hours		Hours
Language.....	4	Language.....	4		
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3		
M. E. 77—Foundry Work.....	3	M. E. 75—Forge Work.....	1		
Phys. 1a—Physics Lectures.....	3	M. E. 79—Pattern Work.....	2		
Phys. 3a—Physics Laboratory.....	2	Phys. 1b—Physics Lectures.....	2		
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Phys. 3b—Physics Laboratory.....	2		
Mil. 3b—Military Theory.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3		
Total.....	18	Mil. 4a—Military Drill.....	$\frac{1}{2}$		
		Mil. 4b—Military Theory.....	$\frac{1}{2}$		
		Total.....	18		

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.<sup>3</sup>Any approved non-technical course. See page 150.<sup>4</sup>Thesis may be elected, subject to the approval of the department, by students of high standing.



## THIRD YEAR

E. E. 25—Direct Current Apparatus.....	4	Econ. 2—Principles of Economics.....	3
E. E. 75—Electrical Laboratory.....	2	E. E. 26—Alternating Currents.....	4
Phys. 44a—Elec. and Mag. Measurement....	3	E. E. 76—Electrical Laboratory.....	2
R. E. 25—Railway Development.....	3	M. E. 2—Steam Engineering.....	3
R. E. 59—Electric Railway Principles.....	2	Phys. 44b—Elec. and Mag. Measurement....	2
T. and A. M. 25—Resistance of Materials...	4	R. E. 60—Electric Railway Principles.....	2
		T. and A. M. 36—Analytical Mechanics....	2
Total.....	18	Total.....	18

## FOURTH YEAR

M. E. 11—Thermodynamics.....	3	C. E. 80—Contracts and Specifications.....	2
M. E. 61—Mechanical Laboratory.....	2	E. E. 56—Electrical Design.....	4
R. E. 35—Railway Signaling.....	1	R. E. 63—Electric Railway Laboratory.....	2
R. E. 62—Electric Railway Laboratory.....	2	R. E. 74—Electric Railway Economics.....	3
R. E. 64—Electric Railway Practise.....	3	R. E. 98—Thesis (or technical elective) <sup>2</sup> ....	3
R. E. 67—Seminar.....	1	Non-technical Elective <sup>1</sup> .....	3
R. E. 71—Electric Railway Machinery.....	2		
R. E. 99—Inspection Trip.....	0		
Non-technical Elective <sup>1</sup> .....	3		
Total.....	17	Total.....	17

## Curriculum in Railway Mechanical Engineering

## FIRST YEAR

## FIRST SEMESTER

Hours<sup>3</sup>

Chem. 1a or 1b—Inorganic Chemistry.....	3-4
G. E. D. 1—Elements of Drafting.....	4
Math. 2—College Algebra.....	3
Math. 4—Plane Trigonometry.....	2
Rhet. 1 <sup>4</sup> —Rhetoric and Themes.....	1/2
Phys. Ed. 1—Gymnasium.....	3
Hygiene 1.....	1/2
Mil. 1a—Military Drill.....	1/2
Mil. 1b—Military Theory.....	1/2
Eng. Lecture.....	0
Total.....	17-18

## SECOND SEMESTER

Hours<sup>3</sup>

Chem. 4—Advanced Chemistry.....	4
G. E. D 2—Descriptive Geometry.....	4
Math. 6—Analytic Geometry.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	1/2
Mil. 2b—Military Theory.....	1/2
Eng. Lecture.....	0
Total.....	18

## SECOND YEAR

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	M. E. 77—Foundry Work.....	3
M. E. 75—Forge Work.....	1	Math. 9—Integral Calculus.....	3
M. E. 79—Pattern Work.....	2	Phys. 1b—Physics Lectures.....	2
Phys. 1a—Physics Lectures.....	3	Phys. 3b—Physics Laboratory.....	2
Phys. 3a—Physics Laboratory.....	2	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3a—Military Drill.....	1/2	Mil. 4a—Military Drill.....	1/2
Mil. 3b—Military Theory.....	1/2	Mil. 4b—Military Theory.....	1/2
Total.....	18	Total.....	18

## THIRD YEAR

Math. 9a—Integral Calculus.....	2	M. E. 3—Steam Engineering.....	3
M. E. 13—Thermodynamics.....	3	M. E. 13b—Thermodynamics.....	2
M. E. 81—Machine Work.....	3	M. E. 64—Power Measurement.....	3
R. E. 25—Railway Development.....	3	M. E. 82—Machine Work.....	2
T. and A. M. 25—Resistance of Materials....	4	R. E. 6—Locomotives.....	4
Elective.....	3	T. and A. M. 26—Anal. Mechanics and Hydraulics.....	4
Total.....	18	Total.....	18

## FOURTH YEAR

E. E. 11—Direct Current Apparatus.....	3	C. E. 80—Contracts and Specifications.....	2
E. E. 61—Direct Current Laboratory.....	1	E. E. 12—Alternating Current Apparatus....	3
M. E. 37—Principles of Management or		E. E. 62—Alternating Current Laboratory....	1
R. E. 31—Ry. Yards and Terminals.....	3	R. E. 7—Advanced Design.....	3
R. E. 2—Locomotive Design.....	3	R. E. 8—Railway Laboratory.....	2
R. E. 5—Railway Laboratory.....	3	R. E. 61—Electric Traction.....	3
R. E. 9—Seminar.....	1	Non-technical Elective <sup>1</sup> .....	3
R. E. 99—Inspection Trip.....	0		
Non-technical Elective <sup>1</sup> .....	3		
Total.....	17	Total.....	17

<sup>1</sup>Any approved non-technical course. See page 150.<sup>2</sup>Thesis may be elected, subject to the approval of the department, by students of high standing.<sup>3</sup>Semester hours. See page 253.<sup>4</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

# THE COLLEGE OF AGRICULTURE

---

For the *buildings* used by this College, see page 55; for a list of its *curriculums*, page 67, for *clubs auxiliary to its curriculums*, page 104; for *honors*, page 92; for *honorary societies*, page, 103; for *fees and expenses*, page 113.

## GENERAL STATEMENT

This College offers curriculums to both men and women. The curriculums offered are designed for four different purposes:

First, and mainly, to train for the profession of farming.

Second, to train for the teaching of agriculture in the public schools.

Third, to train for the profession of landscape gardening.

Fourth, to train for the profession of floriculture.

The curriculums offered by the department of home economics have two purposes in view:

First, and mainly, to train young women in the science of household affairs.

Second, to prepare teachers for giving instruction in domestic science in high schools, and, in connection with the College of Liberal Arts and Sciences, to fit for college and university positions.

In the case of both men and women the great purpose is to prepare for the practical affairs of life. In order that technical knowledge and skill may be developed along with, and not at the expense of, those things which tend to the production of cultured and versatile men and women, the technical work is closely associated with the related sciences, and students are required to divide their time fairly with those subjects that develop general knowledge and breadth of view.

The College offers over one hundred and sixty courses of instruction in technical subjects, besides opportunity to elect from the scientific and literary offerings of the other colleges of the University.

The elective system prevails, and with a few exceptions the student is left free to select those subjects which meet his needs, always under the advice and guidance of the faculty.

Credit is given for all work accomplished; this credit counts toward graduation if the student desires a degree.

## ADMISSION

For the requirements for admission to the College of Agriculture, see the general statement of the entrance requirements of the University, pages 69-76.

## ADMISSION TO GRADUATE WORK IN AGRICULTURE

While in general it will be expected that applicants for admission to the Graduate School shall have had an undergraduate course in scientific and technical agriculture equivalent to that of the University of Illinois, yet students who are otherwise eligible for admission to the Graduate School may be admitted to graduate standing in agriculture if they have had a thoro training in the fundamental sciences, even tho their undergraduate curriculum may have lacked to some extent the amount and kind of technical work included in our course.

## SCHOLARSHIPS IN AGRICULTURE AND HOME ECONOMICS

For detailed information concerning scholarships in agriculture and home economics, see page 106

## **FACILITIES FOR INSTRUCTION AND METHODS OF WORK**

The affiliation of the College with the Agricultural Experiment Station enables the University to support a larger faculty than would otherwise be possible, and permits a higher degree of specialization. For the most part, those who teach in the College conduct experiments in the same subjects in the Station.

The methods of instruction vary with the nature of the courses. In general the laboratory method prevails. Text-books are used when good ones are available. Laboratory and text are supplemented by lectures and reference readings.

## **AGRICULTURAL EXTENSION**

Agricultural extension work serves as the intermediary between the College of Agriculture and the Agricultural Experiment Station and the local community and the farm. Each department does extension work, and so far as possible provides special men for such work. The responsibility for the work of these men lies with their own department. For this reason not all of the extension effort issues from one office.

For administrative purposes and for the coordination of these activities through a regular channel, agricultural extension is administered as a separate department, conducting all extension enterprises which do not deal with technical subjects and cooperating with other departments in diffusing the results of their work in the State.

Some of the general extension enterprises are: Agricultural extension schools and demonstrations in different localities; the two weeks' course given annually at the College in January; helping at farmers' institutes and similar gatherings, with special railway lecture trains, at the boys' state fair school, and in educational exhibits at fairs and elsewhere; welfare work in rural communities; and excursions to the College. (See also under University Extension, Part V.)

Courses of study are offered to assist in determining what phases of agriculture are suitable for secondary school purposes and how they should be taught, and for the discussion of methods of organizing extension activities.

## **AGRONOMY**

The department of agronomy gives instruction in those subjects which relate to the field, as drainage, farm machinery, field crops; the chemistry, physics, and biology of the soil; manures and rotation in their relation to fertility; plant breeding. The department possesses equipment and facilities for instruction in these subjects, and, in addition, affords opportunities for contact with the research work of the Agricultural Experiment Station, especially in crop production, soil fertility, soil biology, and plant breeding, in the analytical and pot-culture laboratories on the soil bins and on the experiment fields at the University and in other parts of the State.

Attention is called to the fact that, if circumstances prohibit a regular four-year curriculum, it is possible for a student who has had sufficient preparatory training to arrange his studies so as to obtain the necessary prerequisites and complete the general courses in soil physics and soil fertility in two years. (See Agronomy 9 and 12.)

## **ANIMAL HUSBANDRY**

The department of animal husbandry offers courses covering the study of sheep, swine, poultry, and beef cattle and their products; heavy and light horses, with their care and training; the management of herds, flocks, and studs; feeding, breeding, and marketing; and the chemical and physiological phase of animal nutrition.

The University herds, flocks, and studs contain about six hundred pure-bred cattle, swine, sheep, and horses, and several hundred fowls, ducks, and turkeys, which are available for class purposes. These animals are also used for investigations in feeding and breeding, and for illustration of breed types and characteristics. The breeds represented are Short-horn, Hereford, and Aberdeen Angus cattle; Poland-China, Berkshire, Duroc Jersey, Chester White, Large Yorkshire, and Hampshire swine; Shropshire, Oxford, Southdown, Hampshire, Rambouillet, and Corriedale sheep; and Percheron, Hackney Pony, and American Saddle horses. In addition to this pure-bred live stock, a large number of grade animals of the various classes of live stock furnish material for judging practise. In this practise, standard market classes and grades of live stock are illustrated, and instruction is given in the selection of animals according to feed-lot and market requirements. The stock pavilion offers opportunity for show and judging work. (For detailed description, see page 56). The lectures of the various courses are supplemented by 1,000 or more lantern slides, charts, diagrams, models, and photographs. Pedigree and breed work is facilitated by 75 sets of the different herd, stud, and flock register, and complete files of the leading American and British journals.

The equipment for instruction and investigation in the feeding, breeding, and management of live stock consists of modern buildings for the housing of beef cattle, swine, sheep, horses, and poultry and a feed storage barn, with various forms of grinding mills and other machinery for the preparation of feed. The laboratories of the department afford facilities for both undergraduate and advanced study in animal nutrition, genetics, and animal diseases.

### DAIRY HUSBANDRY

The department of dairy husbandry furnishes instruction in the production and care of milk and in the manufacture of dairy products. It also furnishes instruction in dairy bacteriology and dairy chemistry.

The various courses cover the application of science to dairy problems, approved methods in dairy operations, and the economic significance of these operations.

In addition to laboratories and lecture rooms, its equipment includes a farm of 160 acres with buildings; about 150 milch cows, bulls, and young stock, including a herd crossed between the Guernsey and Holstein-Friesian breeds, and typical representatives of the Ayrshire, Guernsey, Jersey, and Holstein-Friesian breeds; a manufactory with modern equipment for handling city milk and making butter, cheese, ice cream, and condensed milk; and facilities for the distribution of milk on the University milk route.

### FARM ORGANIZATION AND MANAGEMENT

The department of farm organization and management offers instruction in that field of study which is concerned with the application of the principles of economics and accounting to the business of farming.

It deals with both the problems of farm organization and farm operation. The work is based not only upon the literature available on the subjects, but upon the detailed farm management and cost accounting studies being carried on with a considerable number of farmers located in several sections of the state.

Field trips, on which some of the cooperating farms are visited and for which complete accounting data is presented, constitutes a part of the regular work.

Special problems on systems of farming, the organization of individual farms, and land ownership and tenure are pursued by advanced students.

A special circular in which economics, accounting, business organization and farm management occupy an important place is provided for agricultural students.

## HOME ECONOMICS

The courses given in this department are planned to meet the needs of two classes of students, viz.: (a) those who wish to specialize in home economics; (b) those who wish to specialize in teacher training under the Smith-Hughes act.

The department is housed in the north wing of the Women's Building. The kitchen for extension work, with dining room adjoining, is in the basement. The first floor contains two class rooms, a seminar room, an exhibition room for illustrative material for work in house construction and textile fabrics, offices, and cloak rooms. On the second floor are individual, diet, institutional, and class kitchens, small and large dining rooms, applied science laboratory, two large sewing rooms, offices, and store rooms. On this floor provision is made for the study of the preparation and service of food in large quantities in the institutional kitchen and large dining room adjoining. The equipment on this floor provides practise for those interested in the problems of lunchroom management and for dietitians. The third floor contains laboratories for dress design and sewing, offices, equipment for teaching home care of the sick, and an apartment in which the problems of house construction and furnishing and household administration are studied.

## HORTICULTURE

The department of horticulture offers courses in the five divisions of horticulture (pomology, olericulture, floriculture, landscape gardening, and forestry), and also in subjects dealing with all the divisions, such as plant propagation, spraying, the evolution of horticultural plants, and experimental horticulture.

For instruction in pomology, use is made of the fruit plantations maintained by the department. The orchards of different ages afford opportunities for practise in pruning and studies of tree types, while the products furnish materials for practise in the grading and packing of fruits and the study of systematic pomology. A collection of fruit packages illustrates the types used in commercial packing. There is also a collection of wax models of fruits representing the principal varieties grown in Illinois.

For olericulture, or vegetable gardening, certain areas of ground are reserved on which garden operations are illustrated and various crops are grown. The equipment also includes a greenhouse 105x28 feet, hotbed frames and sash, and an assortment of seed drills, and wheel hoes, hand tools, markers, planters, and other appliances for the growing and handling of vegetables.

The equipment in floriculture includes ten glass houses covering an area of 28,000 square feet, and a service building. Six of the houses, including the palm house, with an area of 3,200 square feet, are used for instructional work exclusively, and the other four, while intended primarily for experimental purposes, add to the facilities for instruction in floriculture as conducted on a commercial basis. Besides roses, carnations, and chrysanthemums, the houses contain a selection of plants representing all the forms used in commercial and decorative or conservatory work. The service building contains laboratories, class rooms, offices, and potting, storage, and work rooms. An assortment of florists' supplies is maintained. Floricultural periodicals, reference books, and a series of over eight hundred slides add to the equipment. The ornamental gardens maintained by the department furnish illustrative materials for students in floriculture and landscape gardening.

The equipment in landscape gardening includes four drafting rooms with desks for individuals, modern filing devices for office practise, seminar rooms, lecture rooms, offices and a library. The library contains a complete collection of books, periodicals, pamphlets, photographs of examples of foreign and American landscape gardening, and works on civic design, all carefully indexed. There is a collection of representative drawings and blueprints from the offices of practising landscape architects, and one of city maps.

The collection of trees and shrubs growing on the campus and about certain residences near the University furnishes material for plant studies in the courses in planting design. The herbarium of the division is also available for reference. A series of 3,500 lantern slides is used in lectures.

Instruction in forestry is facilitated by a collection of native woods and a forest tree plantation of about twenty acres, containing Scotch pine, white pine, Norway spruce, European larch, green ash, black walnut, hickory, bur oak, white elm, and other species.

### REQUIREMENTS FOR GRADUATION

Students who have satisfied the University requirements as to registration and residence and have maintained throughout their course a satisfactory record of scholarship and moral character will be graduated with the degree of Bachelor of Science, on completion of the studies of the prescribed list and sufficient electives to make a total of 130 semester hours.

A thesis is not required for graduation, but any student who has completed not less than 90 hours of credit before the senior year may then elect a thesis course in any department provided he has done not less than 20 hours' work in courses pertinent to the thesis problem, subject to the approval of the head of the department.

Graduates of approved colleges may expect to secure a degree in agriculture from the University on completion of the technical and scientific requirements. This will ordinarily require approximately two years of residence work; a minimum of one year is required.

In physical education not more than five semester hours for men and seven semester hours for women are accepted toward graduation.

### GENERAL CURRICULUM IN AGRICULTURE

#### *Required for the Degree of Bachelor of Science in Agriculture*

All students except those in the special curriculums in home economics, floriculture, and landscape gardening are required to take the same work during the freshman year and part of the sophomore year. This work gives the student a correct conception of the fundamental farm practises and an insight into the technical branches of agriculture, such as animal and dairy husbandry, horticulture, farm crops, soils, farm mechanics, and buildings, and leaves the junior and senior years open for elective studies.

One hundred thirty hours are required for graduation, as follows:

Agriculture prescribed first two years.....	22 hours	
Agriculture prescribed as electives.....	37 hours	
Total agriculture required.....		59 hours
Non-agriculture prescribed.....	41 hours	
Non-agriculture prescribed as electives.....	15 hours	
Total non-agriculture required.....		56 hours
Open electives.....		15 hours
		<hr/> 130 hours

## FIRST YEAR

## FIRST SEMESTER

## SECOND SEMESTER

Hours<sup>1</sup>Hours<sup>1</sup>

Agron. 25—Farm Crops.....	4
Chem. 1—Inorganic Chemistry.....	5
or	
A. H. 5—Live Stock Judging.....	3
D. H. 24—Elements of Dairy Husbandry....	3
Chem. 1a—Inorganic Chemistry.....	3
and	
Ag.Ext. 4—Elementary Agricultural Extension	1
Hort. 1a—Elements of Horticulture.....	2
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3
Phys.Ed. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$

Total..... 17

## SECOND YEAR

A. H. 8—Principles of Breeding.....	2
A. H. 21—Principles of Feeding.....	2
Botany 1—General Botany.....	5
or	
Agronomy 26—Elementary Farm Mechanics	3
Chemistry 13a—Elementary Quantitative	
Analysis.....	5
Mil. 3a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$
Electives.....	5-9

Total..... 15-18

In addition to the prescribed subjects, students will take the following:

Agriculture, electives.....	37 hours
Non-agricultural, electives.....	15 hours
English 20.....	4 hours
Science, elective.....	5 hours
Open electives.....	15 or 17 hours

## CURRICULUM IN FARM ORGANIZATION AND MANAGEMENT

## FIRST YEAR

## FIRST SEMESTER

## Prescribed Subjects

Hours<sup>1</sup>

Ag. Ext. 4—Elementary Agricultural Extension.....	1
Agron. 25—Farm Crops.....	4
Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3
Hort. 1a—Elements of Horticulture.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$

Total..... 15-17

## Prescribed Subjects

Chem. 13a—Elementary Quantitative Analysis	5
A. H. 8—Principles of Breeding.....	2
A. H. 21—Principles of Feeding.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$

In addition to the above courses, the following are also prescribed:

Accountancy 11.....	4 hours
Economics 1.....	5 hours
Economics 16c.....	3 hours
Economics 26.....	3 hours
Business Law 2.....	3 hours
Elective economics, minimum of.....	9 hours
Farm Management 1.....	3 hours
Farm Management 5.....	3 hours
English 20.....	4 hours
Philosophy 1.....	3 hours
Elective science, minimum of.....	10 hours
Elective agriculture, minimum of.....	25 hours
Open electives.....	8 or 6 hours

Total prescribed..... 130 hours

To avoid conflicts it is suggested that the courses in economics, accountancy, and farm management be taken in the following order:

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 76.

FIRST SEMESTER		SECOND YEAR	SECOND SEMESTER	
Economics 1.....	5	Economics 3 (Elective).....	3	
Economics 26.....	3			
		THIRD YEAR		
Accountancy 11.....	4	Economics 14.....	2	
		Economics 16c.....	3	
		Farm Management 1.....	3	
		FOURTH YEAR		
Economics 15.....	2	Economics 17.....	2	
		Business Law 2.....	3	
		Farm Management 5.....	3	

### CURRICULUM IN FLORICULTURE

#### Required for the Degree of Bachelor of Science in Floriculture

The object of this curriculum is to fit men and women for the profession of floriculture. The laboratory exercises in the technical subjects consist of practical work in the green-houses and gardens and give the students a working knowledge of the best methods now in use.

Of the 130 hours required for graduation, 98-100 are provided for in the prescribed list. The other 32-30 hours of credit necessary for graduation may be taken from the electives listed below.

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
Prescribed Subjects				Prescribed Subjects	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1 or 1a—Inorganic Chemistry.....	5-3	Chem. 2a—Inorganic Chemistry and Qualita-		tive Analysis.....	5
Hort. 5—Plant Propagation.....	3	Hort. 4—Plant Houses.....		3	3
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....		3	3
Ent. 4—Economic Entomology.....	3	Bot. 1—General Botany.....		5	5
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Phys. Ed. 2—Gymnasium.....		1	1
Mil. 1a—Military Drill.....	1½	Mil. 2a—Military Drill.....		1½	1½
Mil. 1b—Military Theory.....	½	Mil. 2b—Military Theory.....		½	½
Total.....	14-16	Total.....		18	
		SECOND YEAR			
Agron. 9—Soil Physics.....	5	Hort. 15a—Greenhouse Management.....		3	3
Bot. 27a—Plant Physiology.....	5	Hort. 24a—Trees and Shrubs.....		3	3
Engl. 20—Chief English Writers.....	4	Hort. 31—Garden Flowers.....		3	3
Mil. 3a—Military Drill.....	1½	Mil. 4a—Military Drill.....		1½	1½
Mil. 3b—Military Theory.....	½	Mil. 4b—Military Theory.....		½	½
Total.....	15	Total.....		10	
		THIRD YEAR			
Bot. 7a—Plant Pathology.....	3	Hort. 7—Spraying.....		3	3
Hort. 15b—Commercial Crops.....	3	Hort. 15c—Commercial Crops.....		3	3
Hort. 24b—Trees and Shrubs.....	3	Hort. 42—Landscape Design.....		3	3
Econ. 1—Principles of Economics.....	5				
Total.....	14	Total.....		9	
		FOURTH YEAR			
Hort. 43—Greenhouse Fertilizers.....	3	Hort. 32b—Floral Decoration.....		3	3
Hort. 32a <sup>2</sup> —Floral Decoration.....	3	Hort. 45—Plant Nutrition.....		3	3
B. O. and O. 1 <sup>3</sup> —Business Organization and		Hort. 30—Tender Bedding Plants.....		3	3
Operation.....	3				
Total.....	9	Total.....		9	

#### Suggested Electives

FIRST SEMESTER		SECOND SEMESTER	
Acc'y 1a.....	3	Acc'y 1b.....	3
An. Hus. 30—Genetics.....	5	Bot. 3a—Plant Anatomy.....	5
Hort. 26a <sup>2</sup> —Planting Design.....	3	Bot. 4a—Taxonomy of Cormophytes.....	5
Bot. 14a—Heredity, Variation, Evolution....	2	Bet. 14b—Heredity, Variation, Evolution....	2
Rhet. 10—Business Writing.....	2	Hort. 26b <sup>2</sup> —Planting Design.....	3
Soc. 1—Principles of Sociology.....	3	Chem. 9 and 9c—Elementary Organic Chem-	
		istry.....	5

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>Horticulture 26a and Horticulture 26b may be taken by students in floriculture after having completed the work of courses 24a, 24b, 31, and 42 in Horticulture.

<sup>3</sup>Special sections in Business Organization and Operation 1 will not be open for Agriculture students until 1921-22.



## CURRICULUM IN GENERAL HOME ECONOMICS

The work offered in Home Economics in the College of Agriculture falls into two groups: first, the general course in Home Economics designed for college women who wish to know the application of Home Economics to the home; second, the course in teacher training under the Smith-Hughes bill for vocational education.

Of the 130 hours required for graduation, 98 are provided for in the prescribed list and the restricted electives of List A. The other 32 hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University. Holders of scholarships in home economics in this College take the course as laid out here. Variations from it can be made only by special permission of the Council of Administration on recommendation of the faculty of the College.

To satisfy the requirements for graduation, students transferring from other institutions must take at least one of the following: Home Economics 4, 5, 11, 17, 18, or 28.

## Prescribed Subjects

*Required for Degree of Bachelor of Science in Home Economics*

Art and Design 1, 12.....	5 hours
Bacteriology 5.....	5 hours
Botany 1 or Zoology 1.....	5 hours
Chemistry 1 or 1a, 2a.....	8 or 10 hours
Economics 2.....	3 hours
English 1, 2.....	8 hours
Home Economics, 1, 2, 3, 5, 6, 7, 8, 10, 12, 13, 19.....	33 hours
History 1a-1b, or 3a-3b.....	6 or 8 hours
Physiology 4.....	5 hours
Physical Education 7a-7b, 8a-8b, 9.....	5 hours
Rhetoric 1, 2.....	6 hours
English or Rhetoric.....	5 hours
List A, a minimum of.....	4 hours
Total required hours.....	98 or 102 hours
Electives.....	32 or 28 hours
Total.....	130 hours

## Electives

List A—English 12, 13, 21, 22, 23, 24  
 Horticulture 1a, 1b, 2, 3, 5, 10a, 19, 28  
 Home Economics 11, 14, 17, 18  
 Economics 22, 26  
 Sociology 1  
 Physics 7a, 8a  
 Education 1, 6, 10  
 Agronomy 7, 9, 12, 25, 26  
 Animal Husbandry 10, 5  
 Dairy Husbandry 1, 24, 4, 11, 13  
 Agricultural Extension 3, 4

## Suggested Curriculum

## FIRST YEAR

## FIRST SEMESTER

Hours<sup>1</sup>

A. and D. 1—Freehand Drawing.....	3
Chem. 1 or 1a <sup>2</sup> —Inorganic Chemistry.....	5 or 3
Home Econ. 8—Art and Sanitation in Daily Life.....	2
Lib. Sci. 12—General Reference.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1
Phys. Ed. 9—Hygiene.....	1
Total.....	17 or 15

*Elective*

Home Econ. 7—Textiles..... 3

## SECOND SEMESTER

Hours<sup>1</sup>

A. and D. 12—Applied Design.....	2
Chem. 2a—Inorg. Chem. and Qual. Anal.....	5
Home Econ. 7—Textiles.....	3
Home Econ. 13—Sel. and Prep. of Food.....	3
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1

Total..... 17

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>If Chemistry 1a is taken, an elective must be added, with the approval of the adviser.<sup>3</sup>Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.

## SECOND YEAR

Bot. 1 or Zool. 1—General Botany or Zoology	5	Econ. 2—Principles of Economics	3
Engl. 1—Survey of English Literature	4	Engl. 2—Survey of English Literature	4
Home Econ. 2—Home Architecture	3	Home Econ. 3—House Decoration	3
Home Econ. 6—Economic Uses of Food	4	Physiol. 4—General Physiology	5
Phys. Ed. 8a—Physical Training	1	Phys. Ed. 8b—Physical Training	1
Total	17	Total	16

## THIRD YEAR

Engl. 23—Intro. to Shakespeare	3	Bact. 5—Intro. Bacteriology	5
Hist. 1a—Continental European History		Hist. 1b—Continental European History	
or		or	
Hist. 3a—History of the U. S.	4 or 3	Hist. 3b—History of the U. S.	4 or 3
Home Econ. 5—Dietetics	3	Home Econ. 12—Clothing	3
Home Econ. 19—Dress Design	3	Educ. 25—Educational Psychology	3
Total	13 or 12	Total	15 or 16

## FOURTH YEAR

Educ. 6—Secondary Education	3	Home Econ. 9—Problems in Extension	3
Home Econ. 10—Household Organization and Management	3	Home Econ. 17—Problems in Textiles	3
Home Econ. 13—Teachers' Course	3	Home Econ. 28—Household Organization and Management	2
Sociol. 1—Principles of Sociology	3		
Total	12	Total	8

## CURRICULUM IN TEACHER TRAINING (SMITH-HUGHES)

Of the 130 hours required for graduation, 119 are provided for in the prescribed list. The other 11 hours necessary for graduation are to be taken from the electives listed below.

## Prescribed Subjects

*Required for the Degree of Bachelor of Science in Home Economics*

Art and Design 1, 12	5 hours
Bacteriology 5	5 hours
Botany 1 or Zoology 1	5 hours
Chemistry 1 or 1a, 2a, 9, 9c	13 or 15 hours
Economics 2	3 hours
Education 6, 10, 25, 50	14 hours
English 1, 2	8 hours
Home Economics 1, 2, 3, 5, 6, 7, 8, 10, 11, 13, 14, 29, 30, 31	42 hours
History 1a or 3a	3 or 4 hours
Library Science 12	2 hours
Physical Education 7a, 7b, 8a, 8b, 9	5 hours
Psychology 4	5 hours
Rhetoric 1, 2	6 hours
Sociology 1	3 hours

Total required hours	119 or 122 hours
Electives from list below	11 or 8 hours
Total	130 hours

## Electives (11 to 8 hours required)

Art and Design, 19, 20  
Chemistry 13a  
Economics 26  
Home Economics 4, 17, 18, 20, 21, 28

## Suggested Curriculum

## FIRST YEAR

FIRST SEMESTER	Hours <sup>1</sup>
A. & D. 1—Freehand Drawing	3
Chem. 1 or 1a—Inorganic Chemistry	5 or 3
Home Econ. 8—Art and Sanitation in Daily Life	2
Lib. Sci. 12—General Reference	2
Rhet. 1—Rhetoric and Themes	3
Phys. Ed. 7—Physical Training	1
Phys. Ed. 9—Hygiene	1
Total	17 or 15

## SECOND SEMESTER

SECOND SEMESTER	Hours <sup>1</sup>
A. & D. 12—Applied Design	2
Chem. 2a—Inorganic Chemistry and Qualitative Analysis	5
Home Econ. 1 <sup>2</sup> —Selection and Preparation of Foods	3
Home Econ. 7—Textiles	3
Rhet. 2—Rhetoric and Themes	3
Phys. Educ. 7—Physical Training	1
Total	17

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>If Chemistry 1a is taken, an elective must be added, with the approval of the adviser.

<sup>3</sup>Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.

## SECOND YEAR

Bot. 1 or Zool. 1—General Botany or Zoology	5	Chem. 9 and 9c—Elementary Organic Chemistry	5
Engl. 1—Survey of English Literature	4	Econ. 2—Principles of Economics	3
Home Econ. 6—Economic Uses of Food	4	Engl. 2—Survey of English Literature	4
Home Econ. 29—Garment Making	3	Home Econ. 30—Designing and Making of Typical Garments	3
Phys. Ed. 8a—Physical Training	1	Phys. Ed. 8b—Physical Training	1
Total	17	Total	16
<i>Elective</i>		<i>Elective</i>	
Econ. 26—Economic Resources	3	Home Econ. 21—Weaving	1

## THIRD YEAR

Hist. 1a—Continental European History or Hist. 3a—History of the United States	4 or 3	Educ. 25—Educational Psychology	3
Home Econ. 3—Home Architecture	3	Home Econ. 3—Home Decoration	3
Home Econ. 10—Household Organization and Management	3	Home Econ. 5—Dietetics	3
Physiol. 4—General Physiology	5	Home Econ. 31—Clothing	3
Total	15	Home Econ. 32—Dress Design	1
		Sociol. 1—Principles of Sociology	3
		Total	16

## FOURTH YEAR

Bact. 5—Elementary Bacteriology or Educ. 50—Practise Teaching and Home Econ. 14—Practise House	5 or 8	Educ. 50—Practise Teaching and Home Econ. 14—Practise House or Bact. 5—Elementary Bacteriology	8 or 5
Educ. 6—Principles of High School Education	3	Home Econ. 11—Teachers' Course	3
Educ. 10—Technic of Teaching	3	Total	11 or 8
Home Econ. 13—Teachers' Course	3	<i>Elective</i>	
Total	14 or 17	Home Econ. 17—Problems in Textiles	3
		Home Econ. 28—Household Organization and Management	2
		Home Econ. 18—Lunch Room Management	5

## CURRICULUM IN LANDSCAPE GARDENING

*Required for the Degree of Bachelor of Science in Landscape Gardening*

A four years' course in preparation for professional practise of landscape gardening. Courses are open to any student in the University having the prerequisites or their equivalents.

Of the 130 hours required for graduation, 119 are provided for in the prescribed list. The other 11 hours necessary for graduation may be taken from the suggested electives given below.

## FIRST YEAR

FIRST SEMESTER <i>Prescribed Subjects</i>		SECOND SEMESTER <i>Prescribed Subjects</i>	
Arch. 31—Architectural Drawing	4	Arch. 32—Architectural Drawing	4
French 1a—Elementary Course	4	French 1b—Elementary Course	4
Hort. 36—History of Landscape Gardening	3	A. and D. 12—Design	2
Rhet. 1—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Hort. 39a—Special Lectures	1½	Hort. 39b—Special Lectures	1½
Phys. Ed. 1—Gymnasium and Hygiene	1	Phys. Ed. 2—Gymnasium	1
Mil. 1a—Military Drill	½	Mil. 2a—Military Drill	½
Mil. 1b—Military Theory	½	Mil. 2b—Military Theory	½
Total	16½	Total	15½

## SECOND YEAR

C. E. 31—Surveying	3	C. E. 32—Surveying	3
Hort. 21a—Landscape Design	4	Hort. 21b—Landscape Design	4
Arch. 44—Working Drawings	3	Arch. 44—Working Drawings	3
Bot. 1—Introductory Course	5	Hort. 24a—Trees and Shrubs	3
Hort. 39a—Special Lectures	1½	Hort. 39b—Special Lectures	1½
Mil. 3a—Military Drill	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Total	16½	Total	14½

<sup>1</sup>Semester hours, for definition, see page 253.

## THIRD YEAR

Hort. 23a—Landscape Design.....	4	Hort. 23b—Landscape Design.....	4
Hort. 24b—Trees and Shrubs.....	3	Hort. 26a—Planting Design.....	3
Hort. 27a—Landscape Construction.....	3	Hort. 27a—Landscape Construction.....	3
Engl. 20—English Writers of the 19th Century	4	Pub. Sp. 2 or 10—Public Speaking.....	2
Pub. Sp. 1—Public Speaking.....	2	Hort. 31—Garden Flowers.....	3
Hort. 39a—Special Lectures.....	1½	Hort. 39b—Special Lectures.....	1½
Total.....	16½	Total.....	15½

## FOURTH YEAR

Hort. 25a—Landscape Design.....	5	Hort. 25b—Landscape Design.....	5
Hort. 26b—Planting Design.....	3	Hort. 38—Contracts and Specifications.....	1
Hort. 37a—City Planning.....	3	Hort. 37b—City Planning.....	3
Hort. 39a—Special Lectures.....	1½	Hort. 40—Care of Plant Material.....	3
Total.....	11½	Hort. 39b—Special Lectures.....	1½
		Total.....	12½

NOTE: Registration in Horticulture 39 is required of professional students in each semester. Transfer students are not required to make this work up during the course though they are required to offer an equivalent number of hours of horticulture for graduation.

## Suggested Electives

## FIRST SEMESTER

Arch. 13—History of Architecture.....	2
Arch. 15—History of Architecture.....	2
Bot. 4d—Taxonomy.....	3
Hort. 29a—Garden Design.....	3
Geology 1—General Geology.....	5
C. E. 55—Roads and Pavements.....	2
Rhet. 10—Business Writing.....	2

## SECOND SEMESTER

Arch. 14—History of Architecture.....	2
Arch. 16—History of Architecture.....	2
Soc. 7—The Social Problems of the Rural Community.....	2
Hort. 29b—Garden Design.....	3
Zool. 16—Economic Ornithology.....	2
A. and D. 10—Sketching.....	1
Rhet. 10—Business Writing.....	2

## CURRICULUM FOR PROSPECTIVE TEACHERS OF AGRICULTURE

A curriculum is offered for prospective teachers of agriculture. Among the subjects recommended are the following:

Agronomy 2, 9, 12, 25, 26; Animal Husbandry 1a, 2a, 4a, 5, 6, 11a, 11b, 30<sup>1</sup>; Dairy Husbandry 2, 3; Horticulture 1a, 1b, 3, 5, 10a, 19; Agricultural Extension 1, 4; Botany 1, 3b; Chemistry 1, 2, 3, 13a; Entomology 4; Zoology 1; English 20; Rhetoric 1-2, 19; Public Speaking 5-6; Economics 2; Education 1, 6; Library Science 12; Military 1, 2; Physical Education 1, 2, 1a; Foreign language.

For further information concerning this curriculum, address the Dean of the College of Agriculture.

## TWO WEEKS' COURSE IN AGRICULTURE

The Corn Growers' and Stockmen's Convention is held annually at the College of Agriculture the last two weeks in January. At the time of this convention the College usually gives instruction for two weeks in subjects of special interest to young men on the farm, such as corn and stock judging, milk and seed testing, soils, etc. A morning session of two hours each day is devoted to the discussion of questions of importance to the farmer. In the afternoon an hour is given to lectures upon topics of general interest. The rest of the day is filled with class work in the subjects mentioned above. Each year about a thousand men who are unable to spend a longer time away from home avail themselves of this opportunity to come in touch with the work of the College.

## Admission to Short Courses

No entrance examinations are required and any farmer or farmer's son or daughter may enter these courses. It is important that everyone should be here at the opening of the session. On arrival at Champaign or Urbana, application should be made at the University Young Men's Christian Association, where information concerning board and room may be obtained.

<sup>1</sup>Students taking the Curriculum for Teachers may take Animal Husbandry 30 for one-half semester and receive 2½ credits therefor.

# THE GRADUATE SCHOOL

---

## THE EXECUTIVE FACULTY

DAVID KINLEY, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY

---

ARTHUR HILL DANIELS, Ph.D., *Professor of Philosophy and Acting Dean of Graduate School*

WILLIAM LEONIDAS BURLISON, Ph.D., *Professor of Crop Production*

ALBERT PRUDEN CARMAN, D.Sc., *Professor of Physics*

WALTER CASTELLA COFFEY, M.S., *Professor of Sheep Husbandry*

JULIUS GOEBEL, Ph.D., *Professor of Germanic Languages*

LAURENCE MARCELLUS LARSON, Ph.D., *Professor of History*

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor of Chemistry*

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor of Classics*

CHRISTIAN ALBAN RUCKMICK,<sup>1</sup> Ph.D., *Associate Professor of Psychology*

STUART PRATT SHERMAN, Ph.D., *Professor of English*

ARTHUR NEWELL TALBOT, C.E., *Professor of Municipal and Sanitary Engineering*

EDGAR JEROME TOWNSEND, Ph.D., LL.D., *Professor of Mathematics*

HENRY BALDWIN WARD, Ph.D., D.Sc., *Professor of Zoology*

EDWARD WIGHT WASHBURN, Ph.D., *Professor of Ceramic Chemistry*

---

## HISTORY AND ORGANIZATION

The University of Illinois offered facilities for advanced study and research in various lines as early as 1872. Organized graduate instruction, however, under the name of the Graduate School, was first undertaken in 1892. In 1894 the administration of the school was vested in the Council of Administration, and the Vice-President of the University became Dean of the School. In 1906 the Graduate School was organized as a separate faculty, consisting of a dean and members of the University faculty assigned to this duty by the President.

By action of the Trustees the teaching faculty of the Graduate School includes all members of the University faculty who give instruction in approved graduate courses. The affairs of the School, however, are in charge of the Executive Faculty appointed each year by the President.

## ADMISSION

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty, as hereinafter provided. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. Such candidacy is determined by the Faculty after the student has demonstrated by his work here, for from two to five months, that he has the ability to do major work of graduate character. A mere accumulation of "credits" or "grades" is not sufficient.*

A graduate of an institution meeting the requirements of a standard college as described below, may be admitted to the Graduate School, provided he satisfies the Dean and the departments concerned that he will be able to proceed to the master's degree in a period not exceeding two years.

---

<sup>1</sup>On leave of absence, second semester.

For purposes of admission to the Graduate School a *standard college* is one which meets the following requirements:

1. An enrolment of not fewer than one hundred students of college grade, with an average for a series of years of at least twenty-five per cent registered in the junior and senior classes.
2. A graduation requirement of four years (120 semester hours) of collegiate grade.
3. A minimum entrance requirement of 14 units. By the minimum requirement is meant the smallest number of units with which a student may be permitted to begin college work, i. e., the nominal requirement minus the number of units of conditions allowed.
4. A requirement that all entrance conditions must be removed before a student may be permitted to begin a second year of work in the same institution.
5. Not less than eight distinct departments in liberal arts and sciences, with at least one professor giving full time to college work in each department.
6. A minimum educational attainment of all college teachers of academic subjects equivalent to graduation from a college of high grade and graduate work equal to that required for the master's degree at the University of Illinois.
7. A maximum of 16 semester hours per week required of college teachers.
8. A maximum enrolment of 30 students in recitation or laboratory sections.
9. Buildings and equipment of the value of at least \$100,000.
10. A productive endowment sufficient to yield a net annual income of at least \$10,000 available for instructional purposes in the college department (liberal arts and sciences). If the institution offers courses in addition to the usual liberal arts course, it shall have a correspondingly larger income.
11. A library of not less than 10,000 bound volumes in addition to public documents.
12. Laboratory equipment of a value of not less than \$3,000 in physics (\$4,000 if work is offered in advance of one-year course), \$2,500 in chemistry, and \$2,500 in biology.
13. In addition to the foregoing specific requirements, the general standard of the administration and faculty shall be considered.

Admission to graduate courses may be granted only to those who have had the requisite undergraduate work in those courses or departments. But a student of mature age who satisfies the Dean and the department concerned of his ability to pursue work in a given line may be enrolled in particular graduate courses, without reference to a degree, and permitted to carry on such study or investigation under the direction of a department of the University as the department shall recommend and the Dean approve.

Application blanks for admission may be secured from the Registrar of the University. Every applicant must submit with his application for admission an official transcript of his college record.

### CHARACTER OF GRADUATE WORK

The principal aim of graduate study is the development of the power of independent work and the promotion of the spirit of research. Each candidate for a degree is expected to have a wide knowledge of his subject and of related fields of work; for the graduate student is not expected to get from lecture and laboratory courses all the knowledge and training necessary to meet the requirements for his degree.

Students, especially candidates for the doctor's degree, are warned against restricting themselves to the courses prescribed or suggested by the departments in which they are studying. Each student is expected to do a wide range of private reading and study, and in many cases will find it advisable to take one or more courses of lectures quite outside the field of his chosen subject.

## REGISTRATION AND PROGRAM OF STUDY

The following regulations concerning registration and program of studies are laid out primarily for first-year students. Second-year and third-year graduate students fill out their programs irrespective of the unit value of courses, according to their needs, under the advice of their instructors.

*Registration.*—Each graduate student must register when he first connects himself with the University and afterwards at the beginning of each semester.

The registration of a new student may be accepted at any time provided the student is prepared to take up courses actually under way. Credit towards the fulfillment of the residence requirement dates, however, from the time of registration and not from the beginning of the semester or year in which the student enters. Registration will not be permitted later in the year than April 1, except in the case of students who expect to continue through the summer session, or are returning to complete a year's work which has been broken into by illness or other unavoidable interruption.

The first registration, or that upon entrance, is permitted only after the student's application for admission to the Graduate School, setting forth his educational attainments, has been duly approved.

A new student must fill out in duplicate an application for admission and submit it to the Registrar, from whom, after the approval of his application, he will receive a card of admission and a study-list which will give details of procedure in registering. He should fill out the study-list after consultation with his adviser, or the person in charge of his major work, and also with the instructors whose courses he wishes to elect. *In all cases registration must be completed within two weeks.* Otherwise it is subject to a fee of one dollar.

*Changes in Study-Lists.*—A graduate student is expected to plan his work so carefully that changes in his study-list during the semester will not be necessary. When a change seems advisable, however, it may be permitted without fee if made within three weeks of the date of registration. After that date a fee of one dollar is charged for each change, except that the total charge for a rearrangement authorized on any one change slip shall not exceed two dollars.

*Advisers.*—The person in charge of the major work of the student becomes his adviser, and, together with those with whom the student is taking first and second minor courses, forms a committee with general supervision over the student's general course of study. This committee is expected to follow the student's work, to assist him in planning his course and to give him such advice as may be necessary concerning his scholastic career.

*Advanced Undergraduate Courses Open to Graduate Students.* 1. *Courses not open to students below senior standing.* Unless otherwise specified on the student's program by the department concerned, such courses listed for four or five hours of undergraduate credit, are treated as unit courses for graduate credit; or as half-unit courses when listed for less than four hours of undergraduate credit.

2. *Courses open to students of junior standing.* Unless otherwise specified on the student's program by the department concerned, such courses listed for four or five hours of undergraduate credit are treated as half-unit courses for graduate credit, or as quarter-unit courses when listed for two to three hours undergraduate credit. Courses to which sophomores are regularly admitted may not be taken for graduate credit, either major or minor.

*Transfer of Undergraduate Credit.*—No credit earned during the undergraduate course may be transferred for graduate credit, unless such credit was earned in time additional to the time normally required for the bachelor's degree, in the second semester of senior year, and then only for minor subjects, and on petition. When undergraduate courses with variable semester hours are counted for graduate credit, the transfer is made on the basis of one unit for four semester hours.

*Seniors and Graduate Study.*—If at the end of the first semester of his senior year a student has so far completed his work for the bachelor's degree that his program for the second semester is not full, he may elect one or more graduate courses. But such election must be in accordance with Graduate School rules and must be approved by the Dean at the time of registration. *In no case may courses be counted for graduate credit on a program which requires more than twelve formal class, lecture or laboratory exercises a week, without petition.*

*Miscellaneous and Listeners' Courses.*—Graduate students are permitted under proper circumstances to attend classes as listeners, and to elect miscellaneous subjects, that is, courses which do not count towards an advanced degree. Listeners' cards may be obtained at the Dean's office. Under the authority conferred by the faculty on the Dean no student with a full minimum program will be permitted by the Dean to visit more than one class or to take more than one miscellaneous subject, nor is any subject open as a listener's or miscellaneous course unless it has a specific educational bearing on the student's major or minor subjects of study.

A student who elects a miscellaneous course is required to register in it, do the work, and pass the semester examinations, unless he is permitted to withdraw under the rules. A student who has a listener's card is not permitted to participate in the classwork or the examination.

No student may register for a full minimum program of work for graduate credit if it is necessary for him to carry at the same time more than one miscellaneous subject and to visit one course.

*Students on the Staff.*—Assistants and others on the University staff who undertake to do graduate work are permitted to take an amount of work determined by the terms of their employment. Such a student, if required by his engagements to teach more than five classes a week or to have laboratory work or supervision exceeding ten hours a week, may not receive his master's degree at the end of one year, nor his doctor's degree at the end of three.

The enrolment of a member of the staff is subject to the approval of the officer to whom he is responsible as a member of the staff and of the Dean of the Graduate School with reference to the amount of work to be taken. Before credit may be recorded for such graduate student at the end of a semester, the head of the department in which he is employed, or some one authorized by the head, must certify that the time given to graduate work by the student has not impaired the work for which he is paid by the University.

*Residence and Work Done Elsewhere.*—Continuous residence and study are required of all members of the Graduate School, unless they are granted leave of absence by the Dean, upon recommendation of the professor in charge of their work, for the purpose of carrying on elsewhere studies or investigation in the line of work for their degrees.

Credit for work done elsewhere is not transferred. The candidate is examined here on all the work required for the degree.

*Graduate Study in the Summer.*—Graduate students in the summer session are subject to the same scholastic requirements as those in the regular University year. Their study-lists must be approved by the Dean of the Graduate School, or his representative. Attendance on four summer sessions, or one semester and two summer sessions, is considered the equivalent of one year in residence. If in these sessions the required amount of work is properly done a master's degree may be earned in this way. The faculty is unwilling to accept summer session work beyond the master's degree towards the doctor's degree, except in the case of a student who works in a summer session preceding or following a regular year's attendance at the University. In no case may the last year's work for the doctorate be done in disconnected summer sessions.

No course offered in the summer session may be taken for credit towards a higher



degree unless it is specially described in the summer session circular as accepted for that purpose.

*Summer Work in Medicinal Sciences.*—Graduate courses in medical sciences are offered in the summer quarter between June and September at the College of Medicine of the University of Illinois in Chicago. Circulars describing the courses offered and conditions of admission and work may be obtained from the Secretary of the College of Medicine, Congress and Honore Streets, Chicago.

*Failures.*—A graduate student who fails in any course in his major subject cannot secure his degree in the same year in which the failure occurred. No condition examinations are given graduate students.

*Withdrawal.*—If after registration a graduate student wishes to withdraw from any course or to add other work, he must first secure the necessary papers from the Dean's office. See the regulations concerning changes in study-lists, page 173. If he wishes to withdraw from the University, he must get clearance papers at the Dean's office.

## DEGREES

### Masters' Degrees

*Character of Masters' Degrees.*—The master's degree conferred depends upon the character of the bachelor's degree. The usual practise is that A.M. shall follow A.B., that M.S. shall follow B.S. However, this practise may be departed from in cases where the undergraduate course of study of the candidate was of a kind for which some reputable institutions in this country give A.B., while others give B.S. Such departure from the regular practise is permitted, however, only on individual petition duly approved.

*Amount of Work Required.*—Candidates for the degree of Master of Arts or Master of Science are required to do at least one full year's work in residence, including a thesis. By this is meant from four to five unit courses each semester, or their equivalent. A unit course is one which requires ten hours of time a week through one semester, or a minimum of 180 hours, irrespective of the mode of distribution of that time in class work, laboratory work and private study. Four such courses or their equivalent constitute a full *minimum* program for one semester, and eight such courses, or their equivalent, constitute the *minimum formal* year's work accepted for a master's degree. Only first rate students are permitted to secure a degree with this minimum program.

Unless otherwise permitted, on individual petition duly approved, every student must take each semester at least one course open to graduate students only (courses numbered 100 and upwards).

In the first year of his graduate study each student is required to attend a minimum of four formal class, lecture, or laboratory exercises a week. In no case is he permitted during his course to attend more than twelve a week, without permission.

*Work Done Elsewhere.*—Exception is made to the requirement that all work for the master's degree must be done in residence at the University in the case of members of the staff and high school teachers residing and employed in Urbana or Champaign who have spent half of their time in graduate study through a year at some other approved institution. They may complete the requirements for the master's degree in a year of residence here, spending half their time in study. The candidates must take examinations in the work done elsewhere as well as in that done at this university.

*Majors and Minors.*—A candidate for a master's degree may do all his work in one subject, or he may select a major and one minor, or a major and two minors. A major or minor denotes the field of knowledge of a department, or such part thereof as constitutes a separate and independent division of that field. For a master's degree a major is at least half the work, or a *minimum* of four units, or one year. Less than one unit may not be

counted as satisfying the requirements of a minor without the approval of the department concerned.

A program of studies for a first-year graduate student which is limited exclusively to the investigation of a single problem will not be approved.

*Foreign Language.*—The ability to use one or more of the modern languages ordinarily studied in the undergraduate curriculum is expected of all candidates for the master's degree, and in some line of study is required. On this matter students should consult the heads of the departments in which their major subjects lie.

*Master's Thesis.*—Each candidate for a master's degree is required to present a thesis on some subject approved by the professor in charge of his major work and the Executive Faculty of the Graduate School. The requirement of a thesis may be waived, however, upon the recommendation of the head of the department in which the student is doing his major work and the approval of the Dean, provided application to waive the thesis is made at the beginning of the year. *In no case will permission to take the degree without the thesis be given by the Dean if applied for later than the latest date for the approval of thesis subjects, as shown by the calendar.* A student excused from writing a thesis must replace it with additional courses of instruction.

No one will be excused from writing a thesis unless one-half of his program of studies consists of courses numbered 100 and upwards.

Students working for their masters' degrees in the summer session must announce their thesis subjects not later than the beginning of their third session in residence.

Students who expect to take their masters' degrees in October and February must announce their thesis subjects not later than two months after their first enrolment.

The thesis required from a candidate for a master's degree ordinarily will demand one-fourth of the student's time and may not exceed one-third of it. The thesis must be type-written, on "thesis paper,"<sup>1</sup> and the title page must be printed. The thesis in its final form, together with a certificate of approval by the proper officer, must be left by the professor in charge of the Dean's office at the time set in the calendar. No article prepared for another use, or previously published, will be accepted as a thesis.

*Thesis Work on Leave of Absence.*—Under proper conditions a student may be permitted to complete the last fourth of his work, if devoted to his thesis, under leave of absence. To get such permission the student must have secured credit for at least six units; must petition for the privilege; must submit to the Dean an outline of the proposed investigation, approved by the head of his major department; and must submit satisfactory evidence that adequate facilities are available to him at the place where he intends to do the proposed work. Approval on all these points must be obtained one collegiate year before the thesis is due.

*Grades.*—Student's work is graded in five classes, A, B, C, D, and E. The last indicates a failure. D indicates unsatisfactory, though passable, work. The degree will not be awarded to any student who does not secure a grade of B or higher in three-fourths of the work (number of units) for the degree, including his thesis.

A failure or absence from examination in any course may prevent the conferring of the degree; and, as already indicated, failure in any course in the major field precludes the conferring of the degree in the same year.

*Marine Biological Laboratories.*—Students in zoology, candidates for the master's degree, part of whose necessary preparation is experience in a marine or fresh-water biological laboratory or station, are permitted to offer, in part fulfillment of the requirements for the master's degree, work done in such fresh-water or marine laboratory; provided that the student who wishes to have such work accepted make application before beginning work in such laboratory; that the selection of the laboratory at which he is to work has been

<sup>1</sup>No other will be accepted by the Dean. "Instructions for the preparation of theses" may be obtained at the Dean's office.

approved by the faculty beforehand; that the time to be spent in such work be not less than six nor more than nine weeks in any one summer; that the instructors under whom the student is to work have been previously accepted by this faculty; that he submit to an examination here on the work done at such laboratory; and that a certificate of attendance from a proper officer of the laboratory or station be submitted and a full written report of the work done in the shape of notes, or otherwise, be required; and that the student shall be in residence here at the University for one full academic year during which he shall do the rest of the work necessary for his degree.

The marine biological laboratories which have thus far been approved as institutions at which students of this University may take work for record here are:

*Marine Stations:*

Marine Biological Laboratory, Woods Hole, Massachusetts  
 Harpswell Marine Laboratory, Casco Bay, Maine  
 Puget Sound Station, Friday Harbor, Washington  
 Hopkins Marine Laboratory of Stanford University, Pacific Grove, California  
 Scripps Institute for Biological Research, University of California, LaJolla, California  
 Carnegie Institution Laboratory, Dry Tortugas, Florida  
 Bermuda Biological Station, Bermuda  
 Brooklyn Institute Biological Laboratory, Cold Spring Harbor, L. I.

*Fresh-Water Stations:*

Douglas Lake Station, University of Michigan, Topinabee, Michigan  
 Ohio State University Laboratory, Cedar Point, Ohio  
 University of Wisconsin Lake Laboratory, Madison, Wisconsin

Similar arrangements are made, under similar conditions, for students of geology in connection with Geological Surveys.

### Masters' Degrees in Engineering

Two classes of second degrees are open to graduates of the College of Engineering, namely, academic and professional.

The academic second degree in engineering is Master of Science, following Bachelor of Science, in architecture, architectural engineering, civil engineering, electrical engineering, etc. This degree is conferred in accordance with the regulations described above for *academic work in residence only*.

The *professional* second degrees in engineering are as follows:

Master of Architecture, after B.S. in architecture.

Architectural Engineer, after B.S. in architectural engineering.

Civil Engineer, after B.S. in civil engineering or B.S. in municipal and sanitary engineering.

Electrical Engineer, after B.S. in electrical engineering.

Mechanical Engineer, after B.S. in mechanical engineering.

Engineer of Mines, Civil Engineer, Electrical Engineer, or Mechanical Engineer, after B.S. in mining or railway engineering, according to the course.

Professional degrees are conferred on two classes of candidates: (1) graduates of the College of Engineering of the University of Illinois who have been engaged in acceptable professional work away from the University for a period of not less than three years after receiving the degree of Bachelor of Science; (2) graduates of the University of Illinois, or of institutions of equal standing who have engaged in acceptable professional work in residence at the University for a period of not less than three years after receiving the degree of Bachelor of Science.

In "acceptable professional work" may be included contributions to technical litera-

ture, activity in professional societies, investigation of engineering problems, and the teaching of engineering subjects.

A candidate must declare his candidacy and file with the Dean of the College of Engineering, as chairman of the committee in charge, a detailed statement covering his professional study and experience, not later than the first Monday in November preceding the commencement at which he proposes to qualify. Prior to December 31 next succeeding, he must submit for approval an outline of his proposed thesis and he must file his completed thesis not later than April 1. If the statement of professional experience and study and the thesis are accepted, the candidate must present himself at commencement in order to receive the degree.

Candidates for professional engineering degrees who already hold the degree of Master of Science may qualify for the professional degree after two years of professional work.

A candidate for a professional engineering degree must pay the incidental fee of thirty dollars on being notified that his professional study and experience are accepted as qualifying him to enter as a candidate for the degree. No one will be enrolled as a candidate for the degree at the following commencement who does not pay his fee at this time. When a candidate for a professional engineering degree has once been accepted and paid his fee, he is eligible to receive the degree at any time within five years, without additional fee, on completion of the requirements; provided, however, that unless he completes the requirements within two years his name will be dropped from the list of candidates and in order to receive the degree within the five-year period he must register once more.

### The Degree of Doctor of Philosophy

*Majors and Minors.*—The requirements for the degree of Doctor of Philosophy are a thorough mastery of a selected field of study, evidence of the power of independent investigation in this field, a broad knowledge of the wider field of study of which this major subject is a part, a general acquaintance with related fields of knowledge, and a mastery of all branches of study which are necessary to a full knowledge of the main subject. Each student who is seeking this degree is expected to choose for study and final examination a major subject, or field of study, and a first and second minor. The major subject is the field in which the student expects to become expert and an authority. The first minor must be a subject closely related to the major, and may, under certain conditions and with proper approval, be a subdivision of the major field of study. The second minor should be chosen outside of the major field of study, and must be so chosen by a candidate who elects a division of his major field for his first minor.

For the doctor's degree no definite division of a student's time among major and minors can be made, to hold in all cases. In general the faculty approves an arrangement which, distributing the student's time through the required three years, divides it equally among his three subjects in his first year of graduate study; in the proportion of two to one, as between his major and first minor, in the second year of graduate study (his second minor being finished and dropped at the end of the first year); and gives all his time to his major during his third year.

To put the matter in another way, a course of graduate grade (from among the "hundred" courses) meeting twice or three times a week, corresponding roughly to what is sometimes called a full course, or in our terminology a unit course, running through the year, should ordinarily be sufficient for a second minor; a similar course running through two years should ordinarily be sufficient for a first minor.

While "full-time" work in the first year of graduate study, leading usually to a master's degree, is at least eight units for the two semesters, full-time work after the first year is not reckoned in units. The student is simply required to devote all his time to his work. Nor is there any necessary correspondence between the number of courses taken and the number

of units required in the first year, or full-time work in any year. A first-year student might possibly secure all the credit necessary in two or three courses; and a second-year or third-year student might conceivably be devoting all his time to one course and his research or to his research alone.

*Period of Study.*—The *minimum* period of study required for securing the degree of Doctor of Philosophy in three years, during which the student is required to devote all his working time to his studies. All three years must be spent in residence at some accredited educational institution and either the first two or the last one of the three must be spent at the University of Illinois. The degree is conferred, however, not for residence during a certain period, but for scholarly attainments and power of investigation, as proved by thesis and examinations.

Credit for work done in other universities is not "transferred." The candidate is examined here on the subjects offered by him for the advanced degree. However, his period of residence at another institution of proper grade may be accepted in fulfillment of the residence requirement of the University of Illinois, so far as it goes.

*Preliminary Examination.* Towards the end of his second year of study, or, by special permission, at the beginning of his third year, the candidate for the degree must submit to a preliminary examination, in order to determine whether he will be accepted as a candidate for the degree in the following year. This examination is intended to test the student's knowledge of the fields of his major and minor subjects of study only. It is partly oral, and may be wholly so.

The student will not be admitted to his preliminary examination until the faculty is satisfied that he has finished substantially the equivalent of two years' graduate work. He must do a full year's graduate work between his preliminary examination and the completion of his work for the doctorate.

*Language Examination.*—The candidate will be required to demonstrate his ability to read French and German and other languages needed in his work. This test of proficiency in the use of French and German takes place not later than the time of the preliminary examination for admission to candidacy.

*Final Examination.*—On or before the last Monday in May of the year in which the candidate expects to come up for his degree, he must submit to a final examination, given by a committee appointed by the Dean. This examination is primarily on the research work of the student, as embodied in his thesis, but it is not confined to that. It extends to the whole field of study of the candidate. It will not be confined to the courses which the candidate has attended in the University of Illinois only, if he has done part of the work elsewhere; nor even to the field covered by the courses specifically taken in this or other universities; but will be so conducted as to determine whether the candidate has a satisfactory grasp of his major subject as a whole, and a general acquaintance with the fields of knowledge represented by his course of study.

The final examination may not be divided. The examination must be taken all at one time even tho it requires several sessions.

*Other Examinations.*—Before the candidate is admitted to the final examination and the defense of his thesis, he may be required to take any other examination, oral or written, that is thought proper by the various departments in which he has studied. If, after having passed his preliminary examination, he fails in the third year of his study to meet the expectations of the professors in charge of his work, or in any way fails to maintain the standard of scholarship and power of research expected of him, he may be refused admission to the final examination.

The above examinations are in addition to those in the courses for which the student is registered. These must be taken at the times for which they are set in the examination schedule.

No candidate who does not secure a record of B or higher in at least three-fourths of his work will be recommended for the degree.

*Thesis.*—The power of independent research must be shown by the production of a thesis on some topic connected with the major subject of study. The candidate is expected to defend his thesis or dissertation before the members of the faculty, or as many of them as may wish to question him about it, in connection with his final examination.

The subject of the thesis should be chosen not later than the end of the second year of study and must be submitted for formal approval by the faculty not later than the first Monday of November of the year when the degree is expected.

Unless previously printed with proper authority, a typewritten copy of the complete thesis, *on thesis paper*<sup>1</sup>, must be deposited in the office of the Dean for presentation to the examining committee not later than two weeks prior to the final examination. All theses must be in the hands of the Dean by noon of the Saturday nearest the middle of May.

The doctor's thesis must be printed and one hundred copies deposited in the Library of the University by the candidate, not later than the first of June preceding the conferring of the degree. In form, the printed thesis must follow the "instructions for the preparation of masters' and doctors' theses," copies of which may be obtained at the Dean's office on application. If it is not printed by the first of June, the student must, not later than that date, deposit seventy-five dollars (\$75) or a bond for that amount satisfactory to the Comptroller of the University and the Dean of the Graduate School. A member of the faculty of the University of Illinois will not be accepted as a guarantor on such a bond. If a bond is accepted, it must be replaced at the end of one year with a cash deposit. At the end of two years, if the thesis has not then been printed by the student, the University will print it or such part of it as is deemed best.

The cash deposit made by the student who does not print his thesis by the end of the second year after his degree is conferred becomes the property of the University, to be used for the general purpose of printing theses.

The title-page of each thesis, whether type-written or printed, must bear the words, "Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in—[here put the major subject]—in the Graduate School of the University of Illinois." The title-page must also contain the full name of the author, his previous degrees, the full title of the thesis, the year of imprint and, if a reprint, the title and volume and a statement of the pagination of the volume from which it is reprinted. Each thesis must have an appendix giving a short biography of the candidate, including the institutions he has attended, his degrees and honors, the titles of his publications, and such other matters as are pertinent.

*Doctor's Degree in Engineering.*—The degree of Doctor of Philosophy in Engineering is offered in certain lines of academic work of a high scholastic type in engineering science for students who wish to prepare themselves as teachers, investigators, and experts.

The general requirements for this degree, as to preliminary education, linguistic attainments, etc., are the same as in other lines.

The following lines of engineering science are open to majors:

- Engineering mechanics
- Steam engineering
- Hydraulic and sanitary engineering
- Electrical engineering
- Heating and ventilation engineering
- Railway engineering
- Masonry construction and structural engineering
- Coal-mining engineering

---

<sup>1</sup>No other will be accepted by the Dean.

The first minor may be any of the above or one of the following fundamental sciences or an authorized combination of two of them:

- Theoretical mechanics
- Mathematics
- Thermodynamics
- Chemistry
- Geology
- Physics (Experimental or mathematical)
- Zoology
- Botany

The second minor should be in other than engineering subjects.

### SCHOLARSHIPS AND FELLOWSHIPS

A number of scholarships and fellowships have been established by the Trustees of the University. To first-year graduate students of ability and promise there are open a number of scholarships with a stipend of \$300 each and freedom from tuition, incidental, and laboratory fees.<sup>1</sup> To second-year and third-year graduate students, that is, those who have had one or two years of graduate study, there are open fellowships with a stipend varying from \$350 to \$500, with freedom from the above-mentioned fees. The larger stipends are given only to students who are expected to take their degrees within the year. Each holder of a fellowship or scholarship must pay the matriculation fee of ten dollars, unless he holds a first degree from the University of Illinois, and also the diploma fee of ten dollars on receiving his diploma.

Candidates for these scholarships and fellowships must be graduates of the University of Illinois, or of colleges or universities having equivalent requirements for bachelors' degrees.

Application must be made on blanks to be obtained from the Dean of the Graduate School. These application forms should be sent to the Dean of the Graduate School as early as possible in February of the academic year preceding that for which the fellowship is desired. No application will be considered if received later than March first, until after April fifteenth, the date when appointees from the first list of applicants must accept or refuse their appointments.

Persons appointed are notified on April first and must send the Secretary of the Board of Trustees notice of their acceptance or refusal by April fifteenth; and must agree that, if accepted, the appointment will not be resigned to take a similar one in any other institution during the year for which it is awarded.

Nominations to fellowships are made on the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself. Scholarships and fellowships are not given to candidates who are over thirty years of age at the time when the appointment is to be made.

For second-year fellowships, adequate preparation in French, and for third-year fellowships, adequate preparation in French and German is required.

An appointment as honorary fellow, without stipend, may be made as specified for paid fellowships in the case of any one who has shown distinguished merit in his work.

### The Carr Fellowship in Chemistry

The Honorable Robert F. Carr, of the class of 1893, gave in 1919 the sum of ten thousand dollars, the income of which is to be used as the stipendium of a fellowship in chemistry or chemical engineering.

<sup>1</sup> Up to a certain amount.

### **Research Graduate Assistants in the Engineering Experiment Station**

The Engineering Experiment Station is devoted entirely to research. Its purposes are the study of problems of special importance to engineers and to manufacturing, railway, mining, and industrial interests, and the stimulation and elevation of engineering education.

Fourteen research graduate assistantships have been established in the Engineering Experiment Station. These graduate assistantships are open to graduates of approved technical schools and universities. There is a stipend of \$500 a year for each. Applicants to whom these graduate assistantships are awarded are required to agree to hold them for two years, devoting one-half of their time to the work of the Engineering Experiment Station. At the expiration of this period, if all requirements have been met, the degree of Master of Science will be conferred.

Applications for these graduate assistantships should be made to the Director of the Engineering Experiment Station not later than February first. Candidates must present with their applications full information concerning themselves, including any written or published papers or results of investigation.

### **Scholarship in Pharmaceutical Chemistry**

The American Pharmaceutical Society presented to the University through Professor George D. Beal a stipend of \$240.00 to be used for the year 1919-20 in the promotion of pharmaceutical research, on the condition that the results of the research be published in the Journal of the American Pharmaceutical Association and credit given to the Research Fund of the Association.

### **Corning Glass Works Fellowships**

In June, 1920, the National Research Council created a fellowship in the Department of Ceramics with funds given it by the Corning Glass Works. The appointees to this fellowship have the status of fellows or half-time research assistants; they are given the use of the University's laboratories, under the condition that they pay for the materials used and the equipment damaged.

### **Social Hygiene Board Fellowships**

In January, 1920, the U. S. Interdepartmental Social Hygiene Board gave to the University \$3,500, of which \$3,000 has been used to establish three fellowships of \$800 and one fellowship of \$600 in chemistry. The holders are given the same privileges as the persons holding Carr Fellowships in Chemistry.

### **DuPont Fellowships**

DuPont de Nemours and Company gave the University in 1918 the sum of \$750.00 with which to establish a fellowship in chemistry. They have repeated the offer in the two succeeding years.

### **THE GRADUATE CLUB**

The Graduate Club is an unofficial organization of the graduate students and graduate faculty. Its purpose is to furnish an opportunity for those working in different departments to become acquainted with one another and thus counteract the tendency toward narrowness which intense specialization may sometimes induce.



### THE ILLINOIS HISTORICAL SURVEY

The Illinois Historical Survey is a department of the Graduate School established in 1910 to conduct research in the history of the State of Illinois. The members of the staff, assisted by graduate students, are engaged in the production of scientific studies in Illinois history, and it is expected that the results of these labors will lay a solid basis for the interpretation of the State's past.

The following persons constitute the staff of the Survey for the year 1920-1921: Laurence M. Larson, Ph.D., Professor of History, Director; Theodore Calvin Pease, Ph.D., Assistant Professor of History, Assistant Director; Richard L. Aldrich, Assistant.

### GRADUATE WORK IN THE SUMMER SESSION

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work towards the master's degree.

# THE LIBRARY SCHOOL

---

For a description of the *Library Building*, see page 58; for an account of the *libraries* themselves, see page 61; for the *collection in library economy*, see page 65; for *fees*, see page 113.

## GENERAL STATEMENT

The Library School offers a two-year curriculum to the students who wish to enter librarianship as a profession, and certain library courses to students in other schools and colleges of the University who may wish to elect them as a part of their course of training. The instruction in the first or junior year covers the generally accepted methods and practises in library work; students who complete this year's work are prepared to accept positions in library service. In the second or senior year emphasis is placed on historical and comparative methods of treatment; new subjects are introduced to give the student the necessary outlook and equipment for more responsible positions.

Altho stress is laid on simplicity and economy, methods are taught to enable students to work in large libraries where bibliographic exactness is required. Emphasis is laid on the extension of the activities of the public library, and on the importance of cooperation between the library and the schools and other educational and social agencies.

A member of the senior class in any other school or college of the University may, with the approval of the Director of the Library School, elect any course for which he is prepared.

The school also offers to freshmen and sophomores a course on the use of the University library and the ordinary reference books.

## ENTRANCE REQUIREMENTS

Admission to the Library School is conditioned on the presentation of credentials showing that the applicant holds a bachelor's degree in arts or science from the University of Illinois or has had other equivalent training. No entrance examinations are required.

Application blanks for admission may be secured from the Director of the School, and these, filled out, should be filed, together with such documentary material as the candidate may offer, showing qualifications for admission, generally not later than August 1. It is to the candidate's interest to present application and certificates early, in order that the question of admission may be settled before he comes to Urbana.

## RECOMMENDED PRELIMINARY CURRICULUM

Undergraduates who intend, on the completion of their college work, to apply for admission to the Library School, are requested to select their courses so as to conform in general to the following recommended program of studies preparatory to library work.

English literature, 10<sup>1</sup>; rhetoric, 6.

Latin, 8, in addition to four years of high school Latin.

German, 12, in addition to two years of high school German.

French, 8, in addition to two years of high school French.

German and French begun in college instead of in high school should be continued for a longer period.

Medieval and Modern European history, 6; history of England, 6; history of the United States, 6.

Economics, 6; political science, 4; sociology, 6.

Philosophy, 4; general psychology, 4.

Zoology, 6; botany, 4; chemistry or physics, 6.

<sup>1</sup>The figure after each subject denotes the minimum number of semester hours which the student should devote to that subject.

The total of this work is 102 semester hours, leaving the equivalent of about one year of a four-year course free for work in other subjects or for more work in the subjects named.

### **ADVANCED STANDING**

College graduates who have had approved library experience or who have attended other library schools may be accorded advanced standing by securing credit for some of the courses required for graduation. After satisfying all entrance requirements and after matriculation, the applicant for advanced standing may secure such credit either by examination or by transfer of credits from an approved institution offering courses in library economy. (See page 76).

### **SPECIAL STUDENTS**

It is the practise of this School to admit as special students only those mature persons who, tho unable to meet the formal requirements for entrance, are prepared for thoro and advanced work. Such persons must present evidence of possessing the information and ability to pursue profitably, as special students, the chosen subjects, and some substitute for the regular requirements for entrance, such as the completion of part of a college course, approved library or teaching experience, or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the curriculum prescribed for those who are candidates for the degree of Bachelor of Library Science.

### **PREPARATION FOR SPECIAL LIBRARIES**

For the benefit of students who plan to work in special libraries, a modification of the senior course may be permitted. A student who has satisfactorily completed the work of the junior year may petition for such modification, provided he intends to work in a business, technical, agricultural, or other special library, and provided his undergraduate courses included a sufficient number in the field in which he expects to specialize. In such instances, the faculty may permit the student to substitute for certain of the Library School courses, such electives in the various colleges of the University as will fit the student for special library work in the subject selected.

### **LIBRARY VISITS AND FIELD WORK**

Each year all the students in the School visit the libraries and certain of the book binderies, book stores, and printing establishments of either Chicago and vicinity or St. Louis and vicinity. During this visit, which occupies one week, the students are accompanied by members of the faculty.

The estimated expense of this visit is about \$25 for each trip. Students are required to present a written report of the week's visit on their return to the University, as the work forms part of Library 22 and Library 26.

In order to assure a varied library experience, each student in the senior year is required to spend one month in an assigned library, usually a public library, working, as far as practicable, under the same conditions as a member of the staff of that library, but without compensation. Written and oral reports of the month of field work are required, as the work forms part of Library 26. The estimated expense for the month of field work has been about \$45.

### **CURRICULUM**

The curriculum is two years in length. For graduation a student must receive credit for all courses except those marked with an asterisk (\*), which are elective. The degree of

Bachelor of Library Science is conferred on a student who has completed the required work in the two years' curriculum, and has received credit in courses amounting to 62 semester hours.

## JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Lib. Sc. 2a—Reference.....	3	Lib. Sc. 2b—Reference.....	3
Lib. Sc. 3a—Selection of Books.....	2	Lib. Sc. 3b—Selection of Books.....	2
Lib. Sc. 16—Order of Accession.....	2	Lib. Sc. 30—Practise.....	3
Lib. Sc. 17—Classification.....	3	Lib. Sc. 7—History of Libraries.....	2
Lib. Sc. 18—Cataloging.....	3	Lib. Sc. 19—Trade Bibliography.....	1
Lib. Sc. 20—Loan Department.....	1	Lib. Sc. 21—Printing, Binding, Indexing.....	2
Lib. Sc. 23a—Library Administration.....	1	Lib. Sc. 22—Library Extension.....	3
		Lib. Sc. 23b—Library Administration.....	1
Total.....	15	Total.....	17

## SENIOR YEAR

Lib. Sc. 41a—Subject Bibliography.....	1	Lib. Sc. 41b—Subject Bibliography.....	1
*Lib. Sc. 8—Advanced Reference.....	2	Lib. Sc. 9—History of Books.....	2
Lib. Sc. 40a—Practise.....	3	Lib. Sc. 40b—Practise.....	3
Lib. Sc. 13a—Public Documents.....	2	*Lib. Sc. 42—Public Documents.....	3
Lib. Sc. 15a—Seminar.....	2	Lib. Sc. 15b—Seminar.....	2
Lib. Sc. 24a—Selection of Books.....	2	Lib. Sc. 24b—Selection of Books.....	2
Lib. Sc. 26a—Library Administration.....	3	Lib. Sc. 26b—Library Administration.....	3
*Lib. Sc. 27—Bibliographical Institutions....	1	*Lib. Sc. 28—Practise.....	1 to 4
		*Lib. Sc. 29—Advanced Classification.....	2
Total.....	16	Total.....	19 to 22

## LIBRARY CLUB

Any member of the Library School faculty or of the staff of the University Library and any student in the Library School may become a member. Six meetings are held each year.

## ALUMNI LOAN FUND

The University of Illinois Library School Association has voted to make all surplus funds in its treasury available for loan to senior library school students. Over \$500 is available for that purpose on the vote of the School faculty.

In addition to the courses of the regular two years' curriculum, the School also offers to its students the advantages of hearing lectures by men and women prominent in bibliographical and library fields. From eight to ten such additional lectures on subjects connected with librarianship are given each year.

<sup>1</sup>Semester hours. For definition, see page 253.

# THE SCHOOL OF MUSIC

For *admission* to the School of Music, see the general statement of entrance requirements of the University, pages 69-76. For *fees*, see page 113. For the *faculty* of the School of Music and description of the *courses* in music, see under "Music" in the "Description of Courses," Part III.

## GENERAL STATEMENT

The School of Music offers regular courses leading to the degree of Bachelor of Music.

Students who are not working for the degree in Music may receive a statement from their instructors on completing not less than one year of college work.

Classes in ear training and sight singing meet twice each week. Music students are required to attend these classes.

Students of the School of Music are not allowed to appear in public without the consent of the Director of the School of Music.

All students majoring in a practical subject are required to take Music 94 (Recital) in the Junior and Senior years.

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The courses in the history of music and musical theory, as well as the work in the University Orchestra and the University Choral Society, may be taken by students in other departments without fee. Courses in Applied Music may be taken without charge, except for a nominal registration fee.

## REQUIREMENTS FOR GRADUATION

Candidates for the degree of Bachelor of Music must offer credit for 130 semester hours, including the prescribed subjects named below, together with an acceptable thesis on a topic related to music.

All music students are expected to attend the concerts and recitals which are given under the auspices of the School of Music.

Public performance being part of the course of study in a practical subject, all students are required to participate in a program when sufficiently prepared.

## CURRICULUM IN MUSIC

### FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Foreign language, French, German, or Italian	4	Foreign language, French, German, or Italian	4
Mus. 3—Harmony	2	Mus. 4—Harmony	2
Mus. 21a—Ear Training	2	Mus. 21b—Ear Training	2
Mus. 42a, 52a, or 62a—Piano, Voice, or Violin	4	Mus. 42b, 52b, or 62b—Piano, Voice, or Violin	4
Mus. 46a, 56a, or 66a—Minor subject	2	Mus. 46b, 56b, or 66b—Minor subject	2
Rhet. 1 <sup>2</sup> —Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Ed. 7a—Gymnasium (women)	1	Phys. Ed. 7b—Gymnasium (women)	1
Phys. Ed. 9—Hygiene (women)	1	Phys. Ed. 2—Gymnasium (men)	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene (men)	1	Mil. 2a—Military Drill	1½
Mil. 1a—Military Drill	1½	Mil. 2b—Military Theory	1½
Mil. 1b—Military Theory	1½		
Total, Men	17	Total, Men	17
Total, Women	17	Total, Women	16

<sup>1</sup>Semester hours. For definition, see page 253.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2 may be excused from Rhetoric 1. See page 76.

## SECOND YEAR

Foreign language, French, German, or Italian	4	Foreign language, French, German, or Italian	4
Mus. 1—History of Music	2	Mus. 2—History of Music	2
Mus. 5—Advanced Harmony	3	Mus. 6—Advanced Harmony	3
Mus. 22a—Ear Training	1	Mus. 22b—Ear Training	1
Mus. 23a—Sight Singing	1	Mus. 23b—Sight Singing	1
Mus. 43a, 53a, 63a, or 84—Piano, Voice, Violin, or Organ (Major Subject)	4	Mus. 43b, 53b, 63b, or 85—Piano, Voice, Violin, or Organ (Major Subject)	4
Mus. 46c, 56c, 66c, or 83c—Minor Subject	2	Mus. 46d, 56d, or 66d—Minor Subject	2
Phys. Ed. 8a (for women)	1	Phys. Ed. 8b (for women)	1
Mil. 3a—Military Drill	$\frac{1}{2}$	Mil. 4a—Military Drill	$\frac{1}{2}$
Mil. 3b—Military Theory	$\frac{1}{2}$	Mil. 4b—Military Theory	$\frac{1}{2}$
Total, Men	17	Total, Men	17
Total, Women	17	Total, Women	17

## THIRD YEAR

Educ. 1—Introduction to Education	4	Engl. 2—Survey of English Literature	4
Engl. 1—Survey of English Literature	4	Mus. 8—Counterpoint, Canon, and Fugue	3
Mus. 7—Counterpoint, Canon, and Fugue	3	Mus. 27b—Sight Singing	1
Mus. 24a—Sight Singing	1	Mus. 45b, 55b, or 65b—Piano, Voice, Violin, or Organ	4
Mus. 44a, 54a, 64a, or 86—Piano, Voice, Violin, or Organ (Major Subject)	4	Mus. 46f, 56f, 66f or 83f—Minor Subject	2
Mus. 46e, 56e, 66e or 83e—Minor Subject	2	Mus. 94a—Recital	1
Total	18	Educ. 10—Technic of Teaching	3
		Total	18

## FOURTH YEAR

Engl. 23—Introduction to Shakespeare	3	Mus. 10—General Theory	2
Mus. 9—General Theory	2	Mus. 12—Acoustics	1
Mus. 11—Acoustics	1	Mus. 27b—Ensemble	1
Mus. 27a—Ensemble	1	Mus. 45b, 55b, or 65b—Piano, Voice, Violin, or Organ	4
Mus. 45a, 55a, or 65a—Piano, Voice, Violin, or Organ	4	Mus. 46h, 56h, 66h, or 83h—Minor Subject	2
Mus. 46g, 56g, 66g or 83g—Minor Subject	2	Mus. 94b—Recital	1
Total	13	Total	11

*In addition, to make up the prescribed total of 130 hours:* Elective, for men, 2 hours; for women, 3 hours. This extra credit may be taken at any time; the election must be approved by the student's adviser.

## MUSICAL ORGANIZATIONS

*The University Choral and Orchestra Society* is conducted by the Director of the School of Music, with the assistance of the instructor of band instruments, and gives a series of concerts throughout the year. The orchestra meets for two hours' rehearsal once a week; it is open to all students who qualify for membership. The chorus meets once a week for rehearsal of choral work. Singers not connected with the University are admitted by permission of the Director.

*The Military Band* is conducted by the instructor in band instruments. Besides giving several concerts during the year, it furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examinations. A second band is also conducted, in order that all students who play band instruments ordinarily well may have an opportunity to play in a band. Each full term of service in the band counts for one term of the required work in military science. After obtaining credit for four semesters' work those who are continued in the band for not less than one year are paid an amount equal to the incidental fees for the year. There is also a reserve band and trumpet and drum corps.

The University Women's Glee Club is also under the supervision of the School of Music.

# THE COLLEGE OF EDUCATION

## GENERAL STATEMENT

In June, 1918, the College of Education was organized to supersede the School of Education. It now includes, besides the general education courses leading to the degree of Bachelor of Science (Education), curriculums in Agricultural Education, Athletic Coaching and Physical Education, Home Economics Education, and Industrial Education. It is the aim of the College of Education to prepare its students as completely as possible for positions in the educational profession. It is, therefore, in its general plan and organization considered as one of the professional schools. In the case of Industrial Education, and Athletic Coaching and Physical Education, four-year curriculums are offered.

## REQUIREMENTS FOR ADMISSION

In general, for the year 1920-21, a student must complete two years (60 hours exclusive of military) of a curriculum in the colleges of Agriculture, Commerce and Business Administration, Engineering, or Liberal Arts and Sciences, or the School of Music before being admitted to the College of Education. The exceptions to this are: Athletic Coaching and Physical Education, and Industrial Education. To the former, admission is granted upon the fulfillment of admission to the University and the passing of a medical and physical examination; to the latter, admission is granted upon the fulfillment of the requirements of admission to the University.

Juniors entering the College of Education through the College of Liberal Arts and Sciences should have completed the prescribed subjects and the first five group requirements for the degree of Bachelor of Arts.

Juniors entering through the other colleges should select some curriculum in the college chosen, and complete the first two years.

Juniors entering other institutions must present 60 hours of a curriculum pursued in that institution.

Students who enter with more than 60 hours of credit will be given advanced standing in the College of Education to the amount which the credit is in excess of 60 hours.

## REQUIREMENTS FOR GRADUATION

Students who graduate from the College of Education are awarded the degrees of Bachelor of Science (Education), Bachelor of Science (Agricultural Education), Bachelor of Science (Industrial Education), Bachelor of Science (Physical Education), or Bachelor of Science (Home Economics Education).

The requirements for graduation are the following:

1. Admission to the College of Education;
2. A curriculum of 70 hours, except in Athletic Coaching and Physical Education, in which 136 hours is required, and in Industrial Education, in which 130 hours is required.
3. A major of 20 hours in education, including the following courses taken after admission to the College of Education: educational psychology, 3 hours; technic of teaching, 3 hours; a teacher's course in the subject of specialization, 3 hours; principles of secondary education, 3 hours; and teaching, 3-5 hours.

The sequence of courses is as follows:

*Junior Year—*

First Semester: Educational Psychology.

Second Semester: Technic of Teaching.

*Senior Year—*

Either Semester: The Teacher's Course and Teaching in the high school simultaneously.

Principles of secondary education should preferably be taken in the senior year but in no case earlier than the second semester of the junior year.

During the year 1920-21, the teacher's courses offered in the departments of the College of Liberal Arts and Sciences and the School of Music may be substituted for the teacher's courses which will later be given in the College of Education.

4. A subject of specialization, which the student expects to teach, must be selected. Twenty hours of approved courses must be completed, except that in Agricultural Education, 50 hours, Home Economics Education, 36 hours, Athletic Coaching and Physical Education, 47 hours, and Industrial Education, 15 hours must be completed.

In computing the hours in the subject of specialization, courses taken in other colleges prior to admission may be counted.

5. The remainder of the curriculum may be elected from a list of courses approved by the faculty of the College of Education.

**TEACHER'S DIPLOMA**

Graduates of the College of Education who have satisfied the faculty with regard to their qualifications as teachers will be granted a Teacher's Diploma to apply toward the fulfillment of the requirements for certificates issued without examination.

**CURRICULUMS IN EDUCATION**

Because of the variety of curriculums which the student may offer for admission to the College of Education none is presented in any department except agricultural education, home economics education, industrial education, and athletic coaching and physical education. Students preparing to teach other subjects should follow the requirements stated under "Requirements for the Degree."

**AGRICULTURAL AND HOME ECONOMICS EDUCATION**

The College of Education offers courses for the preparation of teachers, supervisors, and administrators of Vocational Agriculture, and of Home Economics designed to meet the requirements of the section of the Smith-Hughes Act relating to teacher-training institutions.

Courses in teaching include practise in the departments of Vocational Agriculture and Home Economics in the high schools near the University. Opportunity is offered to graduate students to carry on investigations in the field of Agricultural Education.

**Curriculum in Agricultural Education***Meeting the requirements of teacher training under the Smith-Hughes Act***FIRST YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Agron. 25—Farm Crops.....	4	Agron. 25—Farm Crops.....	4
Chem. 1—Inorganic Chemistry.....	5	or A. H. 5—Live Stock Judging.....	3
or A. H. 5—Live Stock Judging.....	3	D. H. 3—Elements of Dairy Husbandry.....	1
D. H. 3—Elements of Dairy Husbandry.....	1	and Chem. 2a—Inorganic Chem. and Qualitative Analysis.....	5
Chem. 1a—Inorganic Chemistry.....	3	Hort. 1b—Elements of Horticulture.....	2
and Ag. Ext. 4—Elementary Agricultural Extension.....	1	Rhet. 2—Rhetoric and Themes.....	3
Hort. 1a—Elements of Horticulture.....	2	Phys. Ed 2—Gymnasium.....	1
Rhet. 1—Rhetoric and Themes.....	3	Mil. 2a—Military Drill.....	1½
Phys. Ed. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 2b—Military Theory.....	1½
Mil. 1a—Military Drill.....	1½		
Mil. 1b—Military Theory.....	1½		
Total.....	15-17	Total.....	16

<sup>1</sup>Semester hours. For definition, see page 253.



## SECOND YEAR

*Required*

A. H. 8—Principles of Breeding.....	2
A. H. 21—Principles of Feeding.....	2
Botany 1—General Botany <i>or</i> .....	5
Agronomy 26—Elementary Farm Mechanics.....	3
Chem. 13a—Elementary Quantitative Analysis and.....	5
Mil. 3a—Military Drill.....	1½
Mil. 3b—Military Theory.....	½
Electives.....	6-8
Total.....	15-18

*Electives*

A. H. 1b—Sheep: Breeding, Feeding, and Management.....	3
A. H. 11b—Beef Cattle: Breeding, Feeding, and Management.....	2
Engl. 20—Chief English Writers.....	4

*Required*

A. H. 8—Principles of Breeding.....	2
A. H. 21—Principles of Feeding.....	2
Botany 1—General Botany <i>or</i> .....	5
Agronomy 26—Elementary Farm Mechanics.....	3
Chem. 13a—Elementary Quantitative Analysis and.....	5
Mil. 4a—Military Drill.....	1½
Mil. 4b—Military Theory.....	½
Electives.....	6-8
Total.....	15-18

*Electives*

A. H. 2b—Swine: Breeding, Feeding, and Management.....	2
A. H. 4b—Horse: Breeding, Feeding, and Management.....	2
Accountancy 1.....	3
Engl. 20—Chief English Writers.....	4
Econ. 2—Principles.....	3

## THIRD YEAR

*Required*

Educ. 25—Educational Psychology.....	3
<i>Electives</i>	
Entomology 4—Economic Entomology.....	3
A. H. 30—Genetics.....	3
A. H. 11b—Beef Cattle.....	3
Agron. 2—Farm Motors.....	2
D. H. 2—Dairy Cattle.....	5
Educ. 28—The Project Method.....	2

*Required*

Education 10—Technic of teaching.....	3
Education 5—Secondary Education.....	3
<i>Electives</i>	
Agron. 14—Seed Inspection.....	2
A. H. 23—Poultry.....	5
Hist. 3—U. S. History.....	3
Soc. 7—Rural Sociology.....	2
Econ. 32—Marketing Farm Crops.....	2
Hort. 42—Fruit Growing.....	3
Dairy 20—Economic Dairy Problems.....	2

## FOURTH YEAR

*Required*

Education 50—Teaching Agriculture.....	2-5
Education 51—Principles and methods of teaching Agriculture.....	3
<i>Electives</i>	
Bot. 27a—Plant Physiology.....	5
Bot. 7a—Plant Pathology.....	5
Education 18—Educational Measurements.....	3
Education 90—Rural Education.....	3
A. H. 34—Anatomy and Physiology of Farm Animals.....	2

*Required*

Education 50.....	2-5
Education 51.....	3
<i>Electives</i>	
Farm Management 1—Principles of Farm Management.....	5
Agron. 12—Soil Fertility.....	5
A. H. 35—Diseases of Livestock.....	2
Agr. Educ. 91—Special Problems.....	3-5

## Curriculum in Home Economics (Smith-Hughes)

## FIRST YEAR

## FIRST SEMESTER

	Hours <sup>1</sup>
A. & D. 1—Freehand Drawing.....	3
Chem. 1 or 1a <sup>2</sup> —Inorg. Chem.....	5 or 3
Home Econ. 8—Art and Sanitation in Daily Life.....	2
Lib. Sci. 12—Gen. Reference.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 7a—Phys. Training.....	1
Phys. Ed. 9—Hygiene.....	1
Total.....	17 or 15

## SECOND SEMESTER

	Hours <sup>1</sup>
A. & D. 12—Applied Design.....	2
Chem. 2a—Inorganic Chemistry and Qualita- tive Analysis.....	5
Home Econ. 1 <sup>3</sup> —Selection and Preparation of Food.....	3
Home Econ. 7—Textiles.....	2
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 7b—Phys. Training.....	1
Total.....	16

## SECOND YEAR

Bot. 1 or Zool. 1—Gen. Bot. or Zoology.....	5
Engl. 1—Survey of Eng. Lit.....	4
Home Econ. 6—Economic Uses of Food.....	4
Home Econ. 29—Garment Making.....	3
Phys. Ed. 8b—Phys. Training.....	1
Total.....	17

*Elective*

Econ. 26—Economic Resources.....	3
----------------------------------	---

Chem. 9 and 9c—Elementary Organic Chem- istry.....	5
Econ. 2—Prin. of Economics.....	3
Engl. 2—Survey of English Lit.....	4
Home Econ. 30—Designing and Making of Typical Garments.....	3
Phys. Ed. 8b—Phys. Training.....	1
Total.....	16

*Elective*

Home Econ. 21—Weaving.....	1
----------------------------	---

<sup>1</sup>Semester hours. For definition, see page 253.<sup>2</sup>If Chemistry 1a is taken, 1 2-hour elective must be added with the approval of the adviser.<sup>3</sup>Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.

## THIRD YEAR

Hist. 1a—Cont. European Hist. or Hist. 3a— Hist. of U. S. ....	4 or 3	Educ. 25—Educational Psychology.....	3
Home Econ. 2—Home Architecture.....	3	Home Econ. 3—Home Decoration.....	3
Home Econ. 10—Household Organization and Management.....	3	Home Econ. 5—Dietetics.....	3
Physiol. 4—Gen. Physiology.....	5	Home Econ. 31—Clothing.....	3
		Home Econ. 32—Dress Design.....	1
		Sociol. 1—Prin. of Sociology.....	3
Total.....	15	Total.....	16
<i>Elective</i>			
Chem. 13a—Elementary Quantitative Analy- sis.....	5		

## FOURTH YEAR

Bact. 5—Elementary Bact. or Educ. 50—Practise Teaching and Home Econ. 14—Practise House.....	5 or 8	Educ. 50—Practise Teaching and Home Econ. 14—Practise House or Bact. 5—Elementary Bact.....	8 or 5
Educ. 6—Principles of High School Education	3	Home Econ. 11—Teachers' Course.....	3
Educ. 10—Technic of Teaching.....	3		
Home Econ. 13—Teachers' Course.....	3	Total.....	11 or 8
Total.....	14 or 17	<i>Elective</i>	
<i>Elective</i>			
Home Econ. 4—Food and Nutrition .....	5	Home Econ. 17—Problems of Textiles.....	3
		Home Econ. 28—Household Organization and Management.....	2
		Home Econ. 18—Lunch Room Management..	5
		Home Econ. 20—Infant Nutrition.....	2

## ATHLETIC COACHING

The purpose of the curriculum in athletic coaching is primarily to train men to instruct in the various physical activities, such as football, basketball, baseball, track and field, swimming, calisthenics, gymnastics, boxing, wrestling, group games, tumbling, and fencing. In addition, opportunity is given to study systems of administration, organization, training, and the theory of physical education.

## Curriculum in Athletic Coaching

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
A. C. 30—Football (10 hrs. prac. and theory, 1st half sem.).....	2	A. C. 60—Swimming (6 hrs. prac.).....	2
A. C. 40—Basketball (10 hrs. prac. and theory, 2nd half sem.).....	2	A. C. 14—Hygiene.....	3
A. C. 20—Field and Track (10 hrs. prac. and theory, 1st half sem.).....	2	A. C. 21—Field and Track (10 hrs. prac. and theory, 2nd half sem.).....	2
A. C. 3a—Free Exercises (10 hrs. prac. and theory, 2nd half sem.).....	2	A. C. 3b—Free Exercises (10 hrs. prac. and theory, 1st half sem.).....	2
Rhetoric 1—Rhetoric and Themes.....	3	Rhetoric 2—Rhetoric and Themes.....	3
Military 1a—Military Drill.....	$\frac{1}{2}$	Military 2a—Military Drill.....	$\frac{1}{2}$
Military 1b—Military Theory.....	$\frac{1}{2}$	Military 2b—Military Theory.....	$\frac{1}{2}$
Electives.....	3-6	Electives.....	2-5
Total.....	15-18	Total.....	15-18

## SECOND YEAR

A. C. 31—Football (10 hrs. prac. and theory, 1st half sem.).....	2	A. C. 4—Apparatus, elementary, (10 hrs. prac. and theory).....	2
A. C. 7—Boxing ( $4\frac{1}{2}$ hrs. prac. 2nd half sem.)	1	A. C. 12—Physiology.....	4
A. C. 8—Wrestling ( $4\frac{1}{2}$ hrs. prac. 2nd half sem.).....	1	A. C. 50—Basketball (10 hrs. prac. and theory)	4
A. C. 13—Anatomy.....	3	Military 4a—Military Drill.....	$\frac{1}{2}$
Psychology 1.....	4	Military 4b—Military Theory.....	$\frac{1}{2}$
Military 3a—Military Drill.....	$\frac{1}{2}$	Electives.....	4-7
Military 3b—Military Theory.....	$\frac{1}{2}$		
Electives.....	3-6		
Total.....	15-18	Total.....	15-18

<sup>1</sup>Semester hours. For definition, see page 253.

## THIRD YEAR

A. C. 6—Group Games and Mass Ath. (3 hrs. prac. 1 hr. theory).....	2
A. C. 9—Orthopedics.....	2
Education 25—Educational Psychology.....	3
Public Speaking 1.....	2
Electives.....	6-9
Total.....	15-18

A. C. 16—Training and First Aid (3 hr. prac. 1 hr. theory).....	2
A. C. 32—Football (theory 4 hrs. 1st half semester).....	2
A. C. 41—Basketball (9 hrs. prac. 1 hr. theory, 2nd half sem.).....	2
Education 50—(Baseball), Baseball Coaching 6 hrs.....	2
Psychology 2.....	3
Public Speaking 2.....	2
Electives.....	2-5
Total.....	15-18

## FOURTH YEAR

Education 6—Prin. of Secondary Education..	3
A. C. 17—Organization and Administration of Phys. Ed.....	3
Education 50—(Football) Coaching, 12 hrs. 1st half sem.....	2
Education 50—(Basketball) Coaching, 12 hrs. 2nd half sem.....	2
Psychology 9.....	3
Electives.....	2-5
Total.....	15-18

A. C. 15—Playground (2 hrs. theory, 3 hrs. prac.).....	3
Education 50—(Track) Coaching 6 hrs. prac.....	2
Education 10—Technic of Teaching.....	3
A. C. 5—Physical Diagnosis.....	2
Electives.....	5-8
Total.....	15-18

## INDUSTRIAL EDUCATION

The Department of Industrial Education of the University of Illinois has been established as an aid in the promotion of the welfare of industry. This it aims to do largely through the better training of teachers. The department is also concerned with the training of manual training teachers of shop work and drafting in the field of general education, and with the training of administrators for both industrial and manual arts.

While the Department is organized as a part of the College of Education, like all other departments of the University, it makes use of such courses in other colleges and departments as serve its purposes. This makes possible a wealth of material for use of students specializing in Industrial Education.

## CURRICULUMS IN INDUSTRIAL EDUCATION

I. Curriculum for Teachers of Shop Work in Vocational Schools and Classes Operating under the State Board for Vocational Education.

## FIRST YEAR

*First Term*

Analysis and Classification of Trade Knowledge (including a study of such mathematics, science, drawing, and English as are needed by a shop teacher).

*Second Term*

Analysis and Classification of Trade Knowledge. Effective Instructional Order. Methods of Teaching.

## SECOND YEAR

*First Term*

Methods of Teaching. Industrial Resources. Supervised Teaching.

<sup>1</sup>Semester hours. For definition see page 253.

## Second Term

Instructional Management, Theory and Organization of Vocational Education, Government and Industry, Supervised Teaching.

## II. Curriculums for Teachers of Related Subjects and General Continuation Subjects.

(Federal Vocational Courses)

*Prerequisite for entrance:* Graduation from an accredited high school.

### Four-Year Curriculum Prescribed for Both

	Hours <sup>1</sup>
Rhet. 1, 2.....	6
Acc'y. 1a, 1b.....	6
Art and Design 1, 12.....	5
Phys. Ed. (Men) 1, 1a, 2.....	2
Mil. (Men) 1a, 1b, 2a, 2b, 3a, 3b, 4a, 4b.....	4
Phys. Ed. (Women) 7a, 7b, 8a, 8b, 9.....	5
Pub. Speaking 1, 2.....	4
Indus. Educ. 1, 2, 50, 58.....	14
Educ. 10, 25, 6, 41.....	12
G. E. D. 1.....	4
Sociol. 1.....	3

### Prescribed for Related Subjects Teachers

	Hours <sup>1</sup>
Math. 2 or 3.....	3 or 5
Math. 4.....	2
G. E. D.....	4
Math. 6.....	5
Chem. 1 or 1a or 1b.....	5 or 3 or 4
Phys. 7a, 7b, 8a, 8b.....	10
Chem. 4.....	4
T. and A. M. 14.....	4
M. E. (Men) 75 and 79, 77, 81, 82.....	11
Home Econ. (Women) 1, 7, 12, 19.....	11
Indus. Educ. 52, 53a, 53b.....	7
Econ. 2.....	3
Acc'y 10.....	2
Electives.....	3-7

### Prescribed for General Continuation Teachers

	Hours <sup>1</sup>
Home Econ. 2.....	3
Econ. 1, 7, 22, 26, 27.....	17
Hist. 3a, 3b.....	6
Pol. Sci. 1, 3.....	6
Rhet. 3c, 10.....	5
Indus. Educ. 54, 55a, 55b.....	7
Electives.....	21

Summer work in trade or industry is desirable for students who pursue these courses.

## Suggested Curriculum for Related Subjects Teachers

### FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Art and Design 1—Freehand Drawing.....	3	Art and Design 12—Design.....	2
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2 or 3—Algebra.....	3 or 5	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium (men).....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene (men).....	1	Phys. Ed. 7b—Physical Education (women).....	1
Phys. Ed. 7a—Physical Education (women).....	1	Mil. 2a—Military Drill.....	½
Phys. Ed. 9—Hygiene (women).....	1	Mil. 2b—Military Theory.....	½
Mil. 1a—Military Drill.....	½		
Mil. 1b—Military Theory.....	½		
Total.....	17	Total.....	15-16

Summer work in trade or industry.

### SECOND YEAR

Chem. 1 or 1a or 1b—Inorganic Chem.....	5 or 3 or 4	Chem. 4—Qualitative Analysis.....	4
Phys. 7a—Physics Lectures.....	2½	Phys. 7b—Physics Lectures.....	2½
Phys. 8a—Physics Laboratory.....	½	Phys. 8b—Physics Laboratory.....	½
Indus. Educ. 1—Craft Production.....	4	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3a—Military Drill.....	½	Indus. Educ. 2—Quantity Production.....	4
Mil. 3b—Military Theory.....	½	Mil. 4a—Military Drill.....	½
Phys. Ed. 8a—Physical Education (women).....	1	Mil. 4b—Military Theory.....	½
Total.....	16 or 17 or 18	Phys. Ed. 8b—Physical Education (women).....	1
		Total.....	18

Summer work in trade and industry.

<sup>1</sup>Semester hours. For definition, see page 253.

## THIRD YEAR

Educ. 25—Educational Psychology.....	3
Indus. Educ. 50—Survey of Indus. Educ.....	3
Econ. 2—Principles of Economics.....	3
Acc'y 1a—Principles of Accounting.....	3
M. E. 75 and 77—Forge and Foundry (men).....	3
H. Ec. 7—Textiles (women).....	2
Public Speaking 1—Oral Expression.....	2
<b>Total.....</b>	<b>16-17</b>

Educ. 10—Technic of Teaching.....	3
Indus. Educ. 52—Teaching of Related Subjects.....	3
Sociol. 1—Principles of Sociology.....	3
Acc'y 1b—Principles of Accounting.....	3
M. E. 79—Pattern Work (men).....	3
H. Ec. 1—Selection and Preparation of Food (women).....	3
Public Speaking 2—Extemporaneous Speaking.....	2
<b>Total.....</b>	<b>17</b>
Summer work in trade or industry.	

## FOURTH YEAR

Indus. Educ. 58—Organization of Industrial Education.....	3
Educ. 41—Vocational Education.....	3
Indus. Educ. 53a—Supervised Teaching of Related Subjects.....	2
M. E. 81—Machine Work (men).....	3
H. Ec. 19—Dress Design (women).....	3
Electives.....	6
<b>Total.....</b>	<b>17</b>

Indus. Educ. 53b—Supervised Teaching of Related Subjects.....	2
Acc'y 10—Shop Management and Shop Records.....	2
M. E. 82—Machine Work (men).....	2
H. Ec. 12—Clothing (women).....	3
Electives.....	10 or 11
<b>Total.....</b>	<b>17</b>

The curriculum for General Continuation Teachers may be arranged by substituting in the suggested curriculum above the prescribed courses for General Continuation Teachers.

### III. Two-Year Curriculums for Teachers of Related Subjects and General Continuation Subjects.

#### (Federal Vocational Courses)

Students over 21 years of age who are graduates of accredited high schools may, with the approval of the Dean of the College and the head of the department, select two years of work from the curriculums under II. Completion of such two years of college work entitles students to certificates. Students over 25 are not required to take Physical Education or Military Training.

### IV. Curriculum for Teachers of Manual or Industrial Arts in Secondary Schools, and Supervisors.

*Prerequisite for entrance:* Graduation from an accredited high school.

#### Four-Year Curriculum

##### FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
G. E. D. 1—Elements of Drafting.....	4	Art and Design 1—Freehand Drawing.....	3
Rhet. 1—Rhetoric and Themes.....	3	Math. 4—Trigonometry.....	2
Indus. Educ. 1—Craft Production.....	4	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gym and Hygiene (men).....	4	Indus. Educ. 2—Quantity Production.....	4
Phys. Ed. 7a—Physical Education (women).....	1	Phys. Ed. 2—Gymnasium (men).....	1
Mil. 1a—Military Drill.....	1/2	Phys. Ed. 7b—Physical Education (women).....	1
Mil. 1b—Military Theory.....	1/2	Mil. 2a—Military Drill.....	1/2
Phys. Ed. 9—Hygiene (women).....	1	Mil. 2b—Military Theory.....	1/2
Elective.....		Elective.....	
<b>Total.....</b>	<b>15-18</b>	<b>Total.....</b>	<b>15-18</b>

##### SECOND YEAR

Econ. 7—English Economic history.....	3	Art and Design 12—Design.....	2
Econ. 26—Economic Resources.....	3	Econ. 22—The Econ. History of the U. S.....	3
M. E. 75 and 79—Forge and Pattern Work (men).....	3	M. E. 77—Foundry Work (men).....	3
Home Econ. 1—Selection and Preparation of Food (women).....	3	Home Econ. 7a—Textiles (women).....	2
Indus. Educ. 3—Household Mechanics.....	4	Econ. 27—Modern Industries.....	3
Mil. 3a—Military Drill.....	1/2	Mil. 4a—Military Drill.....	1/2
Mil. 3b—Military Theory.....	1/2	Mil. 4b—Military Theory.....	1/2
Phys. Ed. 8a—Physical Education (women).....	1	Phys. Ed. 8b—Physical Education (women).....	1
Elective.....		Elective.....	
<b>Total.....</b>	<b>15-18</b>	<b>Total.....</b>	<b>15-18</b>

<sup>1</sup>Semester hours. For definition, see page 253.

## THIRD YEAR

Public Speaking 1—Oral Expression.....	2	Public Speaking 2—Extemporaneous Speaking.....	2
Educ. 25—Educational Psychology.....	3	M. E. 82—Machine Work (men).....	2
Indus. Educ. 50—Survey of Indus. Ed.....	3	Home Econ. 12—Clothing (women).....	3
M. E. 81—Machine Work (men).....	3	Acc'y 1b—Principles of Accounting.....	3
Home Econ. 19—Dress Design (women).....	3	Indus. Educ. 60—Teaching Manual Arts.....	3
Acc'y 1a—Principles of Accounting.....	3	Elective.....	
Elective.....			
Total.....	15-18	Total.....	15-18

## FOURTH YEAR

Indus. Educ. 62—Organization of M. A.....	3	Educ. 6—Principles of Secondary Education..	3
Indus. Educ. 61a—Supervised Teaching.....	2	Acc'y 10—Shop Management and Cost Re- cords.....	2
Sociol. 1—Principles of Sociology.....	3	Econ. 2—Principles of Economics.....	3
Elective.....		Indus. Educ. 61b—Supervised Teaching.....	2
		Elective.....	
Total.....	15-18	Total.....	15-18

## V. Two-Year Curriculum for Teachers of Manual or Industrial Arts.

Students over 21 years of age who are graduates of accredited high schools may, with the approval of the Dean of the College and the head of the department, select two years of work from the curriculum IV. Students over 25 are not required to take Physical Education or Military Training.

## GRADUATE WORK IN EDUCATION

Graduation work in education is offered to qualified students in the following fields: educational administration; history of American education; educational psychology, including mental tests and clinical psychology; educational statistics; educational measurements; educational theory. The facilities of the University, including the library, laboratories, and the Bureau of Educational Research, are such as to make possible the investigation of all kinds of problems connected with the development of educational practise, theory, and administration. The major purpose of graduate work in education is to train students for administrative positions or for work as educational specialists in connection with city and normal schools, colleges, and universities.

## BUREAU OF EDUCATIONAL RESEARCH

The Bureau of Educational Research is equipped for the following purposes: (a) the investigation of educational problems; (b) state service through the assimilation of information by correspondence with those making inquiry concerning the problems of education; (c) periodical publications; (d) the distribution of all standard educational scales and tests. Its personnel consists at the present of a director, an assistant director, two research assistants, and a clerical force of seven persons, including two library assistants for the classification of educational literature.

The Bureau also offers a curriculum designed to prepare students for directing educational research in public schools. This curriculum is planned for three classes of students: (1) superintendents and other supervisors who are directing educational research, (2) supervisors and teachers who desire to advance professionally by preparing themselves to direct educational research, and (3) graduate students in education.

## PUBLICATIONS OF THE COLLEGE OF EDUCATION

The College of Education publishes a series of bulletins comprising (a) reports of investigation and studies by members of the instructional staff and students in the department, and (b) publications of the Bureau of Educational Research.

The Journal of Educational Research is published for the Bureau of Educational Research by the Public School Publishing Company, Bloomington, Illinois. It is edited by the Director of the Bureau of Educational Research with the assistance of a board of associate editors.

## COMMITTEE ON APPOINTMENT OF TEACHERS

The Committee on Appointment of Teachers recommends qualified graduates of the University for positions as teachers or supervisors in public schools, colleges, and technical schools in response to requests from the school authorities. The Director of the School of Education is chairman of the Committee, and the Secretary of the School is its chief executive officer.

The recommendations of the Committee are made under the following regulations of the University Senate:

1. The University Committee on Appointments is authorized to issue its recommendation, signed by the Committee as the agent of the University, in all cases in which it is satisfied with the student's scholarship and ability to teach. The Committee shall regard the scholarship requirements as met if, in addition to carrying the professional courses mentioned in the next paragraph, the student has passed with an average grade of B in the courses necessary to constitute a major in the principal subject which he wishes to teach, and in courses aggregating a minimum varying from six to twelve semester hours (according to subject, and at the discretion of the Committee) in each of the other subjects for which he wishes to be recommended. The Committee shall, however, in each case secure the written opinion of the departments concerned in regard to the scholarship of the applicant, and shall view the evidence of scholarship as shown by the records in the light of this opinion; and if there appear to the Committee to be reasons which from their nature cannot be shown by mere records for questioning the scholastic ability of the student, the Committee may in its discretion withhold the recommendation.

2. A candidate must have successfully completed the following courses in the department of education:
  - a. An introductory course which shall aim (1) to acquaint the prospective teacher with the public school system as it exists today in the United States, and (2) to present a brief outline of the principles of education. (A four-hour course.)

- b. A course in the technics of teaching, accompanied by observation of class-room work in secondary schools, and including a discussion of class-management (routine and discipline), the elements of school hygiene, and the types of school exercises. (A three-hour course.)

3. The Director of the School of Education may, in his discretion, excuse a candidate from the professional courses outlined above, (1) if the candidate is a normal-school graduate or has taken equivalent courses in a normal school or in another college or university; or (2) if the candidate has had at least one year of successful teaching experience. If, at the time of registration with the Committee on Appointments, the candidate has not completed one of the required courses, but is enrolled at that time in the course, a Committee recommendation may be given with the approval of the instructor in charge of the course.

The courses mentioned in Section 2 are (a) Education 25, Educational Psychology (4 hours), and (b) Education 10, Technic of Teaching (3 hours). Either course may be taken in either semester.

## CERTIFICATION OF HIGH-SCHOOL TEACHERS IN ILLINOIS

A student who expects to teach in the Illinois high schools should bear in mind that all teachers must be duly certificated. County high-school certificates are granted upon examination by county superintendents, and State high-school certificates upon examination by the State Superintendent. For county high-school certificates issued without an examination the new certificating law makes the following provision:

"At the option of the county superintendent, a high school certificate may be issued without examination to graduates of a recognized normal school, college, or university, who present within three years after graduation, certified credits in English, pedagogy and six high school subjects (chosen from a list published by the Examining Board) and accompanied by faculty recommendations of ability to teach in the high school." (Section 6.)

The educational courses required for the official recommendation of the University, Education 10 and 25, are commonly accepted as meeting the requirement in pedagogy.

State high-school certificates are granted under the following conditions:

"A four-year high school certificate valid in any high school in the State, for which the requirements shall be: (1) Graduation from a recognized college or university, or the completion of an equivalent preparation; (2) three years' successful teaching, two of which shall have been in the State on a first grade, a high school, or a supervisory county certificate; (3) a successful examination in English, educational psychology, and the principles and methods of teaching, and (4) the preparation of a thesis on one or more secondary school problems, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[NOTE—Candidates who have had three years of successful experience in teaching, two of which were in Illinois under a first grade certificate and have exchanged the same for a county high school certificate under the new law, meet the requirements of No. 2.]" (Circular 72, State Department of Public Instruction.)

Education 10 and 25 embody the materials usually covered by the State examinations in educational psychology and in methods of teaching.

## CERTIFICATION OF SUPERINTENDENTS AND PRINCIPALS

The following are the requirements for certification in supervisory work:

"A four-year supervisory certificate, valid for supervisory work and for teaching in any district in the

State. The requirements for this certificate shall be: (1) Graduation from a recognized high school and from a recognized normal school, or an equivalent preparation; (2) three years' successful supervision, two of which shall have been in this State on a county supervisory certificate; (3) a successful examination in English, educational psychology, sociology, the history of education, and school organization, administration, and supervision, and (4) the preparation of a thesis on one or more problems of school administration, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[NOTE—Candidates who have had three years of successful experience in teaching, two of which were in Illinois, under a first grade certificate, and have exchanged the same for a county supervisory certificate under the new law, meet the requirements of No. 2]"

#### LIFE CERTIFICATES

"At the time of its expiration, upon evidence of successful teaching or supervision satisfactory to the Superintendent of Public Instruction, any four-year State certificate enumerated in this Act shall become valid and be endorsed for life. The Validity of State certificates now in force and those issued in accordance with this Act, shall be conditioned upon the good behavior of the holder." (Circular 72, State Department of Public Instruction.)

Education 2, 4, 6, 16, 20, and 25 embody the material usually covered by the examination (except in English) for the State supervisory certificate.

#### REQUIREMENTS OF THE NORTH CENTRAL ASSOCIATION

Students who anticipate teaching in high schools accredited to the North Central Association of Colleges and Secondary Schools should complete courses in education aggregating at least *eleven* semester hours. This requirement of the Association is effective for new teachers after 1915, but is not retroactive. Certain work offered outside the department of education, especially "teachers' courses," may be counted as part of the eleven-hour minimum.

#### THE CHICAGO TEACHER-TRAINING CENTER

In 1918 the State Board for Vocational Education designated the University of Illinois as an institution for the training of teachers for the trades and industries under the terms of the Smith-Hughes Act. In connection with this enterprise the College of Education was authorized by the Board of Trustees to establish a center in Chicago in which skilled mechanics possessing an interest in teaching might be trained. The Board of Education of the city of Chicago provides class-rooms and equipment for instruction. The instruction is carried on in night classes by members of the faculty of the University resident in Chicago and is under the administrative charge of the Associate Professor of Industrial Education



# THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION

---

## GENERAL STATEMENT

The School of Railway Engineering and Administration<sup>1</sup> has been established to prepare men for the technical and administrative departments of railroads. The work offered is arranged in five different curriculums, any one of which is designed to occupy four years' time. The curriculums are:

- Railway Civil Engineering
- Railway Electrical Engineering
- Railway Mechanical Engineering
- Railway Administration
- Railway Transportation

The first three of these curriculums are administered by the College of Engineering, and a description of them appears with that of other curriculums offered by this College. Students are admitted to them under the same conditions as to other curriculums of the College of Engineering, and they have available for their use all of the library, drafting-room, and laboratory facilities which constitute the equipment of this College. The last two curriculums are administered by the College of Commerce and Business Administration; they are described in detail in connection with the other curriculums of this College. Students are admitted to them under the same conditions as to other curriculums of the College of Commerce and Business Administration.

It is the purpose of each of these curriculums to add to a foundation of general discipline and training specialized training for those who look forward to careers in railway service.

---

<sup>1</sup>This school has been inactive during the years 1919-20 and 1920-21.

# MILITARY SCIENCE

---

Under the Morrill Land Grant of 1862 (see page 46) military training is required and under the Act of Congress of June 3, 1916, there are at the University of Illinois five units of the Reserve Officers' Training Corps.

All male students who are citizens of the United States and physically fit, except (1) students over twenty-five years of age when entering the University, (2) students entering the University with junior standing, and (3) students who have had two years of military work at other institutions, in a senior unit of the Reserve Officers' Training Corps, and who present their service records signed by the professor, showing completion of the basic course, are enrolled during their freshman and sophomore years in the Reserve Officers' Training Corps, and are required during these two years to devote three periods a week of not less than one hour each to military science and training. Two of the three periods are devoted to drill practise, and one period to theoretical training. Students who wish may attend a summer camp of six weeks. No university credit is allowed for this camp.

At the end of the sophomore year a student who so elects and who is selected by the President of the University and the Professor of Military Science and Tactics, and who signs a form of written agreement prescribed by the Secretary of War, may be enrolled for two more years of service in the Reserve Officers' Training Corps. Such students are required to devote five hours a week to an advanced course in military science and training throughout their junior and senior years, and the completion of this work becomes for them a prerequisite for graduation. They are required also to attend one summer camp of six weeks duration. From the beginning of the junior year until the end of the senior year, except the time at camp, they receive commutation of rations at the rate of fifty-three cents a day; at camp the ration itself is furnished and payment of one dollar a day.

For each semester of work in military science, freshmen and sophomores receive one hour of credit toward graduation and juniors and seniors one and one-half hours of credit, making four hours of required work for the freshman and sophomore years, and ten credits in all for students who elect the advanced course of the junior and senior years.

A student who completes the elective advanced course is eligible for appointment by the President of the United States as a reserve officer of the United States Army for a period of five years; and is eligible, also, for appointment as a temporary second lieutenant of the Regular Army, in time of peace, for purposes of instruction, with the allowances provided by law for that grade and pay at the rate of \$100 a month for six months; on the expiration of this period of service with the Regular Army, he reverts to the status of a reserve officer.

The military instruction is under direction of officers of the United States Army. The course has special reference to the duties of officers. The equipment for military instruction is furnished by the War Department and includes: for Infantry, United States magazine rifles, automatic pistols, revolvers, machine guns, trench mortar, and 37 millimeter gun; for Artillery, four American three-inch guns and complete equipment for a battery and battalion headquarters, also one each of the following: 155mm. Howitzer (Schneider), 155mm. gun (Filloux), 4.7-inch American gun, 75 mm. French gun, 75 mm. British gun, 75 mm. American gun, engineer and signal equipment, tractors, reconnaissance car and trucks; eighty-four horses;—for Cavalry, seventy-four horses, saddles, bridles, complete accouterments; for Engineers, engineer instruments used for military sketching, maps, and field fortifications; for Signal Corps, radio telephone and telegraph instruments, field telephones, telegraph instruments, heliographs, flags, wire carts, storage batteries, etc., for air

service, planes, engines, models, etc. Ammunition and supplies for demonstration and practise are furnished. Students in each arm of the service are given instruction in the functions and equipment of the other arms.

For each year's service in the Reserve Officers' Training Corps a regulation uniform is issued to each student; this includes: one coat, olive drab, wool; one pair breeches, olive drab, wool; one pair leggins; two shirts, olive drab, wool; one cap, service; one cap ornament, U. I.; four collar ornaments; one belt; chevrons. In addition those who attend summer camps are issued: two pairs breeches, cotton, olive drab; one pair shoes, marching; one shirt, olive drab, wool; one pair leggins; one hat, service; one hat cord.

The money value of four-year scholarships in the Reserve Officers' Training Corps is as follows:

Four uniforms, Government value of each \$35.13.....	\$ 114.14
Two uniforms, summer camp, value of each \$18.03.....	36.06
Commutation of rations, 600 days at 53c a day.....	318.00
Rations furnished at summer camps which the student may attend two summers, 90 days at 53c a day, value of.....	47.70
Pay at Advanced Camp, \$1.00 per day, 45 days.....	45.00
Transportation average 500 miles per summer, 1,000 miles for two summers at 5c a mile.....	50.00
	<hr/>
Total.....	\$610.90
The average for each of the four years is.....	152.72
The average for each of the last two years is.....	243.47

The Cadet Brigade consists of two regiments of infantry, one regiment of field artillery, two squadrons of cavalry, one battalion of engineers, one signal battalion, two observation squadrons. The training of each of these organizations is directed by an army officer of the appropriate arm of the service. The student is free to choose any branch for which his aptitude and course of studies fit him.

A special military scholarship, good for one year, is open to each junior or senior who attains the grade of commissioned officer; its value is paid to the holder at the close of the year. Appointments in the brigade are made on the nomination of the commandant of cadets confirmed by the Council of Administration. There shall be as many instructors in military science as are deemed necessary, to be selected from the field officers and captains of the brigade, on the recommendation of the Professor of Military Science and Tactics, and approved by the proper authority. They shall receive, in addition to the money value of their military scholarship, one hundred dollars a year, payable at the rate of ten dollars per month from September 1.

A committee appointed by the President of the University examines candidates for nomination to the Governor of the State for commissions as brevet captains in the State militia. Candidates must be members of the senior class in full standing; must have completed the course of military studies; must have served two semesters as commissioned officers; and must be approved by the Council of Administration as having good reputations as scholars, officers, and gentlemen.

The University military band is composed of students, and every full term of service therein is counted as one term of drill. Those who play in the band after having earned their four military credits necessary for graduation have their incidental fees remitted at the end of each year. Besides giving several concerts during the year, the band furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examination.

# PHYSICAL EDUCATION

---

## FOR MEN

The purpose of the work in the Department of Physical Education is to place the emphasis on the educative values of the various physical activities in developing function, perfecting nervous control, and on mental and moral improvement. The courses are so administered that the following benefits are likewise attained:

Hygienic—Development of organic vigor, improvement of health, and the creation of good physical habits.

Corrective—Correction of posture and carriage of undeveloped or deformed parts.

Recreative—Giving an opportunity and incentive for physical recreation.

Physical Education is compulsory for all freshmen. Regular classes are formed in boxing, wrestling, fencing, swimming, and for class and individual proficiency on the various gymnasium appliances. Lectures are given on personal hygiene.

All competitive athletic games are under the direct supervision of the Director of Physical Education, and an examination is required to show that membership on any team will not cause injury, but will tend to improve the physical condition of the participant. No student whose class work is unsatisfactory is allowed to play on a University team.

For a description of the Men's Gymnasium, see page 58.

## FOR WOMEN

The object of the work of this department is to preserve and improve the health, carriage, and coordination of the young women of the University. Each student, when she enters the University, is examined by the medical adviser for women, and further medical examinations are given when deemed necessary.

The class work embraces corrective, hygienic, and recreative exercise, including free and light gymnastics, apparatus, marching, simple steps, games, and participation in the "Maypole." Tennis, hockey, basketball, volleyball, baseball, soccer football, archery, quoits, and lawn bowling are played in season.

The gymnasium is open at certain hours and under suitable restrictions to all women of the University. The uniform consists of black serge bloomers, white middie blouse, black tie, and gymnasium shoes.

The swimming pool is open daily, except Saturday, from 10 to 12 a. m., and from 2 to 5:30 p. m. The regulation swimming suit of one piece must be made of cotton jersey or other cotton material.

For a description of the Women's Gymnasium, see under Woman's Building, page 58.

# THE SUMMER SESSION

---

DAVID KINLEY, Ph.D., LL.D., PRESIDENT

CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Dean of the College of Education, and Director of the Summer Session*

## GENERAL STATEMENT

The Summer Session of the University of Illinois for 1920 opened June 21, and closed August 14, making a term of eight weeks, or one-half a semester, for all students except graduate students who are candidates for a master's degree, for whom the prescribed term is nine weeks, and except students taking only courses in library science, physical education for men, athletic coaching, for whom the term was six weeks from June 21. The Summer Session of 1921 will open on June 20 and close on August 13.

All of the courses, except those in library science and physical education for men, will extend through the eight weeks. Students who wish to remain for only six weeks, however, may obtain from the Director of the Summer Session a certificate for such attendance, but university credit will not be given for six-weeks' courses except for those in physical education for men and in athletic coaching.

Students may register for courses aggregating eight hours or less.

## PURPOSE

The Summer Session is an organized integral part of the University year. Tho its organization is not subdivided into colleges, numerous courses are offered by departments in the Colleges of Liberal Arts and Sciences, Commerce, Agriculture, Engineering, Education, and in the School of Music and the Library School. All courses may be counted toward an A.B. or B.S. degree, or toward a master's degree, unless otherwise specified. By two Summer Sessions a regular student may reduce the eight semesters to seven, thus securing his degree a half year earlier than he would otherwise have done.

Students who have just graduated from an accredited high school may matriculate in the Summer Session and obtain credit for a half-semester. Pre-medical students are strongly urged to do this and to register for chemistry or zoology, mathematics, rhetoric, or other prescribed pre-medical subjects.

One of the primary purposes of the Summer Session is to meet the needs of the teachers in the public schools who wish to spend part of the summer vacation in serious study or investigation. Numerous courses are designed particularly for high-school teachers, supervising officers, teachers of special subjects (agriculture, art, home economics, manual training, music, industrial education, etc.), and coaches of athletic teams; graduate courses are offered for college instructors, school supervisors, and principals who are working for advanced degrees.

## ADMISSION

Admission in regular status to courses in the Summer Session for which university credit is granted is limited to students who could be regularly admitted into the colleges of the University (Liberal Arts and Sciences, or Commerce, or Engineering, or Agriculture) in which they would be registered in the winter session.

In order to meet in full the entrance requirements for any one of these colleges, a student must be a graduate of an accredited high school (or in lieu of such graduation, must

pass entrance examinations in five units, including English composition, 1; algebra, 1; and three others to be designated by the University authorities in each case), and must obtain credit, either by passing entrance examinations or by presenting certificates of work completed in accredited secondary schools or other recognized schools, for 15 units of high-school work, or the equivalent, in subjects accepted for admission to the University, including in the case of each college certain subjects especially prescribed for admission to that college. (See pages 69-76).

Admission to courses which give university credit, as *special students, not candidates for a degree*, may be granted to persons 21 years of age or over, subject to the general regulations of the University relating to special students.

A student who transfers from another college or university must present a letter of honorable dismissal, and transcript of record, from the institution previously attended.

## REGISTRATION

Students will present themselves for registration on Monday, June 20, 1921.

## FEES

*All fees are due upon registration.*

A tuition fee of twelve dollars (\$12) is required of all students in regular attendance at the Session. This entitles one to admission to regular courses and to all special lectures. An extra laboratory fee is charged in some courses for materials used. Any single course, counting not more than two and one-half credit hours, may be taken for a fee of six dollars (\$6) and the laboratory fee, if there be any in connection with the course taken.

Fees in addition to the tuition fee are required for practical courses in music.

## SCHOLARSHIPS

By ruling of the Board of Trustees of the University, all high-school teachers in Illinois, and all other teachers in the State who are qualified to matriculate in the University as regular students, are entitled to Summer Session scholarships, exempting them from payment of the tuition fee. To matriculate regularly in the University, one must either pass the entrance examinations, or present a certificate from an accredited high school or other evidence of having completed the requisite amount of preparatory work.

The Board of Trustees has extended the scholarship privileges also to persons graduated from the Illinois State Normal Schools during the academic year preceding the session in which the scholarship is desired, and to persons (otherwise qualified) who have not been teachers, but who are under contract to teach in the State during the coming year.

Application banks for scholarships may be obtained by addressing the Registrar.

## GRADUATE WORK IN THE SUMMER SESSION

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high-school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each and an additional four weeks' study

at the University under the direction of the person in charge of the major work. Thus a student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work toward the master's degree.

### **COURSES IN LIBRARY SCIENCE**

Beginning Tuesday, June 22, 1920, and continuing for six weeks, the Library School conducted courses to which were admitted only high-school graduates actually employed as librarians, or library assistants, or as teacher-librarians, or under definite appointments to serve in such positions. The curriculum met especially the needs of workers in college, public, and high-school libraries of Illinois, and no tuition fee was charged students entering from a library in this state; students entering from libraries in other states paid a tuition fee of \$12. The work was under the general direction of the faculty of the Library School, and the instruction was given by members of the faculty, supplemented by lectures by neighboring librarians. No credit toward a degree is given for the work.

In addition to this, courses of the regular two-year curriculum were offered to college graduates who satisfied the entrance requirement. These courses extended over eight weeks, and were accepted for credit to the B. L. S. degree. Admission to these courses was conditioned on the presentation of credentials showing that the applicant held a Bachelor's degree in Arts or Sciences from the University of Illinois or had other equivalent training.

Application blanks for admission must be secured, and these should be filled out and sent to the Director of the School together with such additional statements as the candidate may offer, showing his qualifications for admission. The application must be filed sufficiently early to enable the School to receive replies from librarians and others who have personal knowledge of the applicant.

### **COURSES FOR ATHLETIC COACHES**

Courses for Athletic Coaches were established in connection with the Summer Session of 1914, under the general direction of George A. Huff, Director of Physical Education for men, to meet the growing demand, not only from high schools, but from colleges and other institutions as well, for trained men to direct and coach athletics. They were designed to assist both the high-school teacher or principal, who desired to become proficient in coaching one or more athletic teams and the man who intended to take up the directing of athletics or coaching as a vocation.

Each year the courses have been a feature of the Summer Session. They occupy the first six weeks. All the courses were taught by the men who coach the athletic teams of the University of Illinois: in baseball (Director Huff), track athletics (Mr. Harry Gill), basketball (Mr. F. J. Winters), gymnasium (Mr. Arthur J. Schuettner), football (Mr. Robert Zuppke), and organization and administration (Mr. J. L. Griffith). The athletic plant of the University is turned into a laboratory and a larger part of the instruction is given on Illinois Field.

Students may devote either their whole time, or part of their time to these courses. Detailed information regarding the courses for Athletic Coaches may be found in a special circular which will be sent on application to George A. Huff, Director, Gymnasium, Urbana, Illinois.

### **ATHLETICS**

Altho both the men's and women's gymnasiums will be used in some parts of the regular class work in Physical Education, they are nevertheless open to students not registered in those courses, for the purpose of general recreation and exercise. Both of the gymnasiums contain swimming pools, shower baths and other forms of bath, lockers, and dressing rooms. Students are charged a small sum for a locker. The tennis courts, general athletic fields, and golf courses on the University campus are open to the student body.

### **DESCRIPTION OF COURSES**

For a description of the courses offered in the Summer Session, see the General Description of Courses, beginning on page 253.



# THE COLLEGE OF LAW

---

For the *faculty* of the College of Law and for the *courses* in law, see under "Law" in the Description of Courses, Part III; for *fees* and *expenses*, page 113.

## COURSES OFFERED

The College of Law offers two curriculums leading to the degree of Bachelor of Laws (LL.B.):

(1) A three-year curriculum in law, based on an entrance requirement of two years of college work.

(2) A four-year curriculum in law and non-legal electives, based on an entrance requirement of one year of college work.

## THE THREE-YEAR CURRICULUM IN LAW

(This includes only law subjects)

### Admission

For admission to the three-year curriculum as a regular student an applicant must be matriculated and have 60 hours' credit in a college of this University; or have completed two full years of work as given at another college or university of recognized standing, as a matriculated student in such college or university; or have received by transfer 60 hours of university credit here.

Students from other institutions who may fall short of this requirement not to exceed five hours of credit by transfer may be admitted to the three-year curriculum as conditioned students; such conditions to be made up before the beginning of the student's second year in the college.

## THE FOUR-YEAR CURRICULUM IN LAW AND NON-LEGAL ELECTIVES

### Admission

The four-year course is designed to permit a combination of law subjects with general courses.

For admission to the four-year curriculum as a regular student, an applicant must be matriculated and have 30 hours' credit in a college of this University, or its equivalent from another college or university of recognized standing. No conditions are permitted for admission to the four-year curriculum.

The degree of Bachelor of Laws is granted to students thus admitted who complete the 84 hours in law required in the three-year curriculum, and in addition thirty hours in other colleges, to be distributed over the four years.

Approximately two-thirds of law work and one-third in subjects other than law are to be taken during the first two years of the four-year curriculum.

## SPECIAL STUDENTS

A student who is twenty-one years of age and is entitled to admission as a regular student to the freshman class of another college of this University, will be admitted as a special student in the College of Law. If he attains in the courses of the first year an average

grade of "C" or over, he will be admitted to regular standing, and he may receive the degree of Bachelor of Laws if in all the courses he presents for the degree his average grade is "C" or more.

In exceptional cases, other persons may, by permission of the faculty, be admitted as special students.

### ADVANCED STANDING

After matriculation, an applicant may obtain advanced standing (1) by transfer of credits from another accredited law school upon presentation of a certificate of honorable dismissal and a certified record of work done; or (2) by examination taken at the time of entrance to the College of Law in first-year subjects only.

### Suggested Pre-Legal Curriculum

The student entering the University with the intention of taking a law course is advised to register as a pre-legal student and to plan his preliminary college work with great care. He is invited to consult members of the law faculty in regard to his plans. In general the following schedule of studies is recommended by the faculty of the College of Law:

#### FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Hist. 2a—English History.....	3	Hist. 2b—English History.....	3
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Foreign Language.....	4	Foreign Language.....	4
Mathematics or Chemistry.....	5	Mathematics or Chemistry.....	5
or		or	
Acc'y 1a—Principles of Accounting.....	3	Acc'y. 1b—Principles of Accounting.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Phys. Ed. 2—Gymnasium.....	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Total.....	17 or 15	Total.....	17

#### SECOND YEAR

Econ. 1—Principles of Economics.....	5	Econ. 2—Money and Banking.....	3
Hist. 3a—History of the U. S.....	3	Engl. 20—Chief English Writers.....	4
Philos. 1—Logic.....	3	Hist. 3b—History of the U. S.....	3
Pol. Sci. 1—American National Government.	3	Pol. Sci. 3—State and Local Government....	3
Pub. Sp. 1—Oral Expression.....	2	Pub. Sp. 2—Extemporaneous Speaking.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	17	Total.....	16

The courses in military, physical education, rhetoric, and foreign language are required of freshmen, and the second-year courses in military of sophomores, in the College of Liberal Arts and Sciences. With these exceptions the above list is intended to be suggestive rather than prescriptive.

English political and constitutional history is necessary for the understanding of our own law and government. The practical usefulness of courses in argumentation and debate, public speaking, and logic is obvious.

Students who may be interested in mathematics and the physical sciences may properly substitute additional courses in these subjects in the second year. The training in the deduction of principles and their application to the solution of problems which these studies afford is held to be of distinct advantage to prospective students of the law.

Still other suggestions as to suitable electives for pre-legal students may be obtained from the outline of the General Business Curriculum, page 135.

<sup>1</sup>Semester hours. For definition, see page 253.

### **SIX-YEAR COMBINED COURSES**

The attention of students, who can spend more than five years in professional preparation, is especially called to the six-year courses, by which they may take in the College of Liberal Arts and Sciences or in the College of Commerce three years of work deemed valuable for one who intends to be a lawyer, and by combining it with three years work in law obtain in six years both a bachelor's degree in arts or science and the degree of bachelor of laws or doctor of law. To this end certain studies in the College of Law may be counted toward both degrees. See the statement about electives in law in the College of Liberal Arts and Sciences (p. 121), and the curriculum in Commerce and Law (p. 142). Law subjects to be so counted may not be taken before the junior year. The student must take at least two courses in any semester amounting to not less than five semester hours, and his choice of courses is subject to the approval of the Dean of the College of Law.

A candidate for both degrees must in his fourth year register in the College of Law, and also register or file a copy of his study-list in his other college, as that college may require.

Students in a combined six-year course will need to exercise some care and foresight in order to be able to comply with the requirements of the College of Liberal Arts and Sciences or the College of Commerce as to majors, minors, and group electives within three years.

### **PRACTISE COURT**

The sessions of the Practise Court are held every Monday afternoon of the first semester for the third-year class, and every Monday afternoon of the second semester for the second- and third-year classes together. The court is presided over by Judge O. A. Harker, who has had an experience of twenty-five years as a judge of the Circuit and Appellate Courts of Illinois. It is the purpose to have the proceedings of the Practise Court conform to proceedings in the various courts of the states. Students are trained in the preparation of pleadings, brief making, legal investigation and argument, the preparation of legal documents and in the trial of cases, both civil and criminal.

### **THE LAW LIBRARY**

The Law Library contains 35,000 volumes, including all the reports of the courts of last resort of all the states; the United States Supreme, Circuit, and District Court reports; the National Reporter System; the English reports; the Irish reports; the Scotch Appeal cases; the Current Canadian and Australian reports, and complete reports of several of the Canadian provinces; the statutes of the various states; several sets of selected cases, such as the American Reports, American State Reports, American Decisions, Lawyers' Reports (Annotated), and American and English encyclopedias and digests; and a full collection of standard text-books and legal periodicals.

### **THE DEGREE OF BACHELOR OF LAWS**

The degree of Bachelor of Laws (LL.B.) is granted to regularly matriculated students who pursue the prescribed curriculum and obtain 84 hours of credit in law courses. A student having grades below "C" in subjects aggregating more than twenty-five per cent. of his entire work will not be graduated.

### **THE DEGREE OF DOCTOR OF LAW**

The degree of Doctor of Law (J.D.) is granted to students who comply with the following conditions:

- (1) Complete the work required for the degree of Bachelor of Laws.
- (2) Secure a bachelor's degree in Liberal Arts and Sciences at least two academic years prior to the completion of the courses for the degree of Doctor of Law.
- (3) Obtain a minimum average of "B" in the College of Law.
- (4) Present a thesis approved by the faculty of the College of Law.

The thesis may be returned to the writer for revision, or if unsatisfactory, it may be rejected altogether. If returned for revision it may be rejected after being revised. If accepted it will be filed in the Law Library, and may be published by the College of Law or by the University.

### CERTIFICATE FOR ADMISSION TO THE ILLINOIS BAR EXAMINATION

Any student, altho not a candidate for a law degree, if he has taken at least ten hours a week for the period of three academic years, from among the courses offered, is entitled to a certificate thereof from the University, which certificate satisfies the requirements as to legal studies prescribed by the Supreme Court for applicants for admission to the bar examination.

### CURRICULUM

The program of instruction in law is designed to occupy the student's full time for three years. The fundamental subjects are presented in the first year, the more specialized and practical topics in the second and third years. A few subjects are given only in alternate years.

Students are required to take courses averaging fourteen (14) hours each semester. First-year students may not take more than 15 hours without special permission. Second-year and third-year students may not take more than 15 hours without special permission, unless their work for the preceding semester has averaged "C" or over. If their average has been "C," 16 hours may be taken.

### CURRICULUM IN LAW

Candidates for a degree in law are required to pursue all the studies listed for the first year and the course in Equity, and to obtain in other courses listed as law courses, or otherwise available toward the degree (see below), a total of 84 credits.

#### FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Law 1a—Contracts.....	3	Law 1b—Contracts.....	3
Law 2a—Torts.....	3	Law 2b—Torts.....	2
Law 5—Criminal Law.....	3	Law 3—Real Property, Rights in Land.....	3
Law 6—Personal Property.....	3	Law 7—Domestic Relations.....	2
Law 26—Legal Ethics.....	1	Law 11—Agency.....	3
Law 37a—Brief Making.....	2	Law 37b—Brief-Making.....	2
Total.....	15	Total.....	15

#### Second Year

The student is required to take the course in Equity in his second year, and is advised to include in the courses of that year Common Law Pleading, Evidence, Real Property—Titles, Equity Pleading and the Practise Court for second-year students.

#### Third Year

The student is advised to postpone to and include in the courses of his third year Private Corporations, Constitutional Law, Conflict of Laws, Illinois Procedure, and the Practise Court for third-year students.

A student registered in the College of Law may count in credits toward a law degree the courses in Advanced Accounting and Auditing (Accountancy 3a-3b); Corporation Management and Finance (Econ. 10); English Constitutional History (Hist. 4a-4b); Public International Law (Pol. Sci. 6, Law 30); Argumentation (Public Speaking 3);

<sup>1</sup>Semester hours. For definition, see page 253.

Debate (Public Speaking 4); provided that the courses are taken while registered in the College of Law; that the total of credits for such courses shall not exceed ten; and that no such credit shall be so counted which is also counted to make up the sixty hours of college work required for a law degree or toward the degree of Bachelor of Arts or of Bachelor of Science.

### **PRIZES**

Eight scholarship prizes are open to matriculated students of the first and second years, to be awarded at the end of each year, four of \$25.00 each semester and four of \$12.50 each semester, available in discharge of incidental fees.

Callaghan & Company, law publishers, of Chicago, offer an annual prize, consisting of the Cyclopedic Law Dictionary, to be awarded to the member of the second-year class making the best average during his second year.

### **PRIVILEGES OF STUDENTS**

The students of the College of Law may take, without extra fee, courses of study in other departments of the University, provided they secure the approval of the Dean of the College of Law. Especial attention is called to the courses in public speaking and debate, and to the courses in history, economics, accounting, and political science.

Law students are entitled to library privileges in the general library as well as in the law library, and possess in general all the privileges enjoyed by other students of the University, such as the use on equal terms of the gymnasium, tennis courts, and golf course.

# THE COLLEGE OF MEDICINE

## BUILDING AND EQUIPMENT

The College Building is located in the city block bounded by Harrison, Congress, Honore, and Lincoln streets, Chicago. For description, see page 60.

## CLINICAL FACILITIES

### Dispensary

The Dispensary occupies the first floor and part of the second floor of the College building. It is divided into ten departments: medicine, surgery, pediatrics, orthopedics, laryngology, dermatology, ophthalmology, gynecology, neurology, and genito-urinary diseases. Twenty-seven thousand and six treatments were given in 1919-20. Six thousand, nine hundred and eighty new patients were registered during the same period.

Opportunities are afforded the student to examine the cases personally under the guidance of instructors. As far as possible, the student is required to make laboratory examinations pertaining to his own cases. Such examinations as the Wassermann reaction are made by the instructors in the laboratory, but the student has an opportunity to follow these and to learn the technic involved.

### Clinics

In addition to those in the dispensary more than 600 clinics in various hospitals are open to students. The great majority of diseases seen in the temperate zone are demonstrated and most of the operations of surgery are performed in these clinics.

Fourth-year students are required to examine and diagnose many cases, and under certain conditions may assist in operations.

*The Cook County Hospital* is located within half a block of the College. This institution is the largest charity hospital in America. During the past year, it has cared for 59,500 patients. In this hospital is conducted much of the clinical instruction of the College. Medical appointments in this institution are made each year by the Civil Service Board. The internes, 64 in number, are selected each spring by competitive examination. Only graduates of medical colleges of Cook County are eligible for these examinations. The internes serve eighteen months.

*The County Morgue* is located in the hospital grounds, and daily post-mortems are held by the pathologists of the hospital.

The hospital tickets, costing \$5.00 each, for sale at the office of the Warden, admit the holders to all clinics and autopsies and to all public operations and lectures.

*The University Hospital* is located at the corner of Congress and Lincoln streets, opposite the College. The Directors of the hospital are members of the faculty of the College. Approximately forty per cent of the clinical instruction of the College is conducted in this institution. Bedside instruction is given, under certain conditions, to small groups of students. No students, excepting those of the College, were admitted to clinical instruction in the hospital during the past two years. The selection of internes for this hospital is limited to graduates of the College.

Clinical instruction to students in small groups, and bedside instruction to those serving as externes, may be given in the following hospitals:

Augustana Hospital  
Michael Reese Hospital  
St. Luke's Hospital

Illinois Charitable Eye and Ear Infirmary  
St. Mary's of Nazareth Hospital  
St. Joseph's Hospital

In addition to the above, there are more than sixty public and private hospitals in Chicago, each of which appoints from two to four internes annually.

### ANNOUNCEMENT OF NEW HOSPITAL FACILITIES

The last General Assembly appropriated \$300,000 for the construction of a medical clinical building. This building will be devoted to the treatment and investigation of those diseases which belong in the fields of general medicine, surgery, obstetrics, and gynecology.

The last General Assembly also appropriated about \$1,000,000 to the State Department of Public Welfare for the construction of a group of educational hospitals in the city of Chicago. Of this group the Illinois Charitable Eye and Ear Infirmary, a Psychiatric Institute, and a Surgical (Orthopedic) Institute for Children are in the process of construction.

On July 5, 1919, the State Department of Public Welfare and the State University agreed to a plan of cooperation and differentiation to construct and maintain a great group of hospitals and institutes in the medical center of Chicago where laboratories, libraries, and medical skill can be readily obtained; to provide medical treatment for the indigent sick of the State; to give young men and women a medical education and training such that they will become active soldiers in the warfare for the prevention as well as the cure of disease; to help practising physicians of the State to keep in touch with the latest and best methods of preventing and curing human ailments; to tell the people of the State through special lectures and bulletins how to keep themselves physically efficient. The greatest object of all is to find out the cause of sickness and prevent it.

### Library Facilities

The Quine Library of the University of Illinois Colleges of Medicine and Dentistry is housed on the second floor of the medical building. It includes 22,915 bound volumes and a number of reprints and separates. The pharmacy collection occupies a part of the main floor of the School of Pharmacy building. It contains 3,856 volumes, and ranks as one of the largest pharmaceutical libraries in the country. In addition to these two collections, many of the departments of the three schools are supplied with working libraries.

The John Crerar Library, containing files of journals, monographs, separates, and standard texts, covering practically the entire field of medicine, is easily accessible from the College.

The collections of the library include the standard text-books, works of reference, monographs, and journal files in the fields of medicine, dentistry, and pharmacy.

### ADMISSION

For the requirements for admission, see page 77.

### ADMISSION OF SPECIAL STUDENTS

The general rule of the University with reference to special students will apply to the College of Medicine: Persons over twenty-one years of age, *not candidates for a degree*, may, on approval of the dean, be admitted to classes for which they are prepared.

### ADVANCED STANDING

The University will accept scholarship and time credits for work done in medical colleges having standards equal to those of the College of Medicine of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the college in which he has pursued his medical studies.

Deficiencies due to differences in the curriculums will be adjusted with the understanding that these will be satisfactorily met during the first year of the student's residence in this institution.

Further, his record must be of such a character as to give evidence of high scholastic attainment.

### REGISTRATION

Students are required to register in the office of the Secretary immediately upon the opening of the term for the work of that term, and credit will be allowed only in the branches in which they are registered. Students will be registered in the order in which their fees are paid.

### COLLEGIATE YEAR

On February 1, 1919, the College of Medicine of the University of Illinois returned to the operation of the semester system. The collegiate year ended June 11, 1919.

The collegiate year of 1920-21 consists of a session of thirty-seven weeks, beginning September 27, 1920 and ending June 15, 1921. The year is divided into two semesters, one of nineteen and the other of eighteen weeks duration. Attendance on the full session is required in order to secure credit for a year's work, and attendance on four full sessions is required for graduation and a year's service as interne in a hospital approved by the University.

### FEEES AND EXPENSES<sup>1</sup>

All fees are payable in advance. The entire matriculation fee and laboratory fee are due and must be paid during the registration days of the first semester, together with one-half of the general fee. The remainder of the general fee is due and payable on the registration days of the second semester.

Exceptions to this rule will be made only with the approval of the proper administrative officer.

There are no fees for special courses or quizzes. No members of the instructional staff are allowed to accept special fees.

Fees charged special students are based on the amount of work taken.

Alumni are admitted to all regular courses, without charges, except in laboratory work in which a charge is made for material actually used.

Each student is required to have an individual microscope. Provision has been made whereby the student can purchase a microscope at reduced rates and pay for the same in annual installments. If a student be unable to purchase a microscope, the school will rent him one for his exclusive use at the rate of \$2.50 to \$4.00 per term, depending upon the equipment of the instrument.

### Living Expenses

The expense of living in Chicago is less than in most other large cities. From forty to fifty dollars per month may be regarded as adequate for the ordinary living expenses of a student exclusive of books, clothing, railroad fare, and miscellaneous needs.

The expense for books varies between \$25.00 and \$50.00 a year. The instructors at the beginning of each course direct their students in regard to the purchase of text-books.

<sup>1</sup>See also page 114.



**SCHOLARSHIPS**

Through the generosity of the late Professor R. L. Rea a fund has been provided for four scholarships each year for worthy students. These scholarships are awarded annually by the officers of the Faculty.

For the session of 1920-21, they were granted to the following students:

Emery J. McIntire

Frank B. Lucas

Louis Feldman

William M. Byers

The scholarship given by the Northwestern branch of the Woman's Foreign Missionary Society of the Methodist Episcopal Church was awarded to Elizabeth Smith.

For information concerning other scholarships available to students in the College of Medicine, see page 105.

**COURSES OFFERED**

The student is offered his choice of the following courses:

1. A course of nine years—four years in the College of Liberal Arts and Sciences at Urbana, leading to the degree of Bachelor of Arts, followed by five years in the College of Medicine in Chicago, leading to the degree of Doctor of Medicine. This plan not only gives a liberal course of study and a medical course as well, but offers opportunity in the last two years of the medical course for specializing in chosen lines. This course of study is recommended to young men who can afford the time for it, and who are of the average age of graduation from the public high schools.

2. An eight-year course—three years in the College of Liberal Arts and Sciences at Urbana, followed by five years in the College of Medicine in Chicago. Students taking this course are permitted, at the end of their first year in the College of Medicine, to transfer credits in the medical sciences to complete the requirements for graduation of the College of Liberal Arts and Sciences, and receive the degree of Bachelor of Arts. On the completion of the remaining three years in the College of Medicine they receive the degree of Doctor of Medicine.

3. A seven-year course—two years in a recognized College of Liberal Arts and Sciences followed by five years in the College of Medicine. The work of the first two years must include certain prescribed subjects. On the completion of the first two years in the College of Medicine, these students receive the degree of Bachelor of Science; and on the completion of the four years in the College of Medicine, they receive the degree of Doctor of Medicine. The two years of work in arts and sciences required for admission to the College of Medicine may be taken in the College of Liberal Arts and Sciences at Urbana.

**Electives**

The student is required to select from a number of courses offered for this purpose, two hours of work in the third year and six hours of work in the fourth year.

**Optional Work**

Optional courses supplementary to the required work of the regular curriculum are offered in many departments. Students may be permitted to register for such courses after completing the work of the first year with the consent of the committee. No credit toward the degree in medicine is allowed for this work.

**Examinations**

General examinations are held in all subjects at the end of each term during the week set apart for this purpose.

Examinations for the removal of conditions in the work of the first four years are held during the week preceding the opening of the next collegiate year. Only one examination for the removal of a condition in a given subject will be permitted and then only on presentation of evidence of actual additional work done in the subject under satisfactory instruction. Conditions not removed before the beginning of the next school year become failures.

Absences from examinations count as failures unless they occur for satisfactory reasons, in which case the student may be examined subsequently, provided permission for such examination be granted by the Dean of the College of Medicine.

### **Grades**

The passing grade in each subject is 70. A grade from 60 to 70 constitutes a "condition." A grade below 60 constitutes a "failure." A "failure" can be removed only by repetition of the subject in course in an approved institution.

### **Promotions**

Failures to the extent of 100 hours may be carried from the first (Freshman) year into the second (Sophomore) year or from the second (Sophomore) year to the third (Junior) year. No failures of the third (Junior) year may be carried into the fourth (Senior) year. No failures may be carried from the fourth (Senior) year into the fifth (Interne) year.

Failures must be made up in course, and the number of hours of such failures shall be deducted from the total number of hours of the regular work for the period.

### **REFUSAL OF FURTHER REGISTRATION ON ACCOUNT OF POOR SCHOLARSHIP**

A student who in any semester receives failures in one-half the total number of hours in his course, or the equivalent in conditions, or in failures and conditions combined, shall be refused further registration in the College of Medicine.

Note:—One and one-half hours of condition are counted as the equivalent of one hour of failure.

### **GRADES FOR DEGREE OF BACHELOR OF SCIENCE**

No student having grades below 75 in subjects aggregating twenty-five per cent of his entire work in the junior college will be recommended for the degree of Bachelor of Science.

### **Reports**

Reports on scholarship and attendance are mailed to all students as soon as possible after the end of each term.

### **REQUIREMENTS FOR GRADUATION**

A candidate for graduation from the College of Medicine of the University of Illinois must meet the following requirements:

1. He must have presented acceptable evidence of good moral character.
2. He must have paid all indebtedness to the college.
3. He must have completed the prescribed curriculum of the College of Medicine, comprising four years, of thirty-four weeks each, and in addition must have satisfactorily completed a fifth year (twelve months) of interne service in a hospital approved by the University. A year of graduate work will be accepted in lieu of the interne year. Students

admitted to advanced standing from other medical schools will not be given full time credit for any year of less than thirty-two weeks of actual work. The candidate must obtain satisfactory credits in all required subjects and pass his final examinations in accordance with the rules laid down by the faculty. The fourth year of work must have been taken in the University of Illinois College of Medicine.

In order to be eligible for an internship in an approved hospital in Illinois a candidate must pass the regular examination of the Illinois State Board of Health and receive from that Board a "limited license," authorizing him "to practise medicine or surgery in a hospital approved by the Illinois State Board of Health and in no other place whatsoever in this State, said limited license to remain in force and effect for a period not exceeding eighteen months from date of issue of same." (Schedule of Minimum Requirements for Medical Colleges in good standing with the Illinois State Board of Health as amended January 27, 1918).

The diploma for the degree of Doctor of Medicine will be issued upon the presentation of satisfactory evidence that the hospital year has been acceptably completed.

The rules of the Illinois State Board of Health makes the following provision for the issuance of the permanent license:

"At the expiration of the limited license and surrender of same, or upon the completion of the twelve-months hospital course and the surrender of the limited license, and upon presentation of satisfactory evidence that the hospital course has been completed within eighteen months subsequent to the date of completion of the fifth year of the medical course, and further that the candidate presents a diploma of graduation by the medical college, school, or institution in which he or she completed the fifth year of the medical course, the State Board of Health may then issue to the holder of said temporary or limited license a regular permanent certificate, without further examination or fee, provided that all other requirements prescribed by the Act regulating the practise of medicine in the State of Illinois and by the rules of the Illinois State Board of Health relating thereto have been satisfactorily complied with."

#### GENERAL PLAN OF INSTRUCTION

The course of study extends over four years. During the first two years the work is, in the main, confined to the sciences fundamental to practise medicine, and the time of the student is largely devoted to laboratory work; during the first year, this consists of work in anatomy, chemistry, embryology, histology, and physiology. During the second year the study of anatomy and physiology is continued, and in addition the student takes up bacteriology, laboratory diagnosis, operative surgery, pathology, materia medica, pharmacology, therapeutics, and hygiene.

During the third and fourth years the time is largely devoted to the various clinical branches, emphasis being given to practical instruction in dispensary and hospital clinics.

The fifth year consists of twelve months service as interne in a hospital approved by the University. A year of graduate work will be accepted in lieu of the interne year.

Students are prohibited from doing work that interferes in *any way* with the fulfillment of the requirements of the curriculum. Unofficial clinical work may not be substituted for the official clinical requirements of the curriculum.

## DESCRIPTION OF COURSES IN MEDICINE<sup>1</sup>

### ANATOMY, HISTOLOGY, EMBRYOLOGY

ALBERT CHAUNCEY EYCLESHYMER, M.D., Ph.D., *Professor and Head of the Department*

OTTO FREDERIC KAMPMEIER, Ph.D., *Associate Professor*

ROY LEE MOODIE, Ph.D., *Associate Professor*

ARTHUR REUBEN COOPER, A.M., Ph.D., *Assistant Professor*

JOSEPH CLARK STEPHENSON, Ph.D., *Associate*

OSCAR EUGENE NADEAU, M.D., *Instructor*

THOMAS SMITH JONES, B.F.A., *Artist and Instructor*

GENEVIEVE LOUISE MEAKIN, *Artist*

LOUIS N BOELIO, *Assistant and Chief Technician*

FRANK J VLCEK, D.D.S., *Technician*

ADOLPH HAMMER, *Director of Plastic Studio*

#### General Statement

The laboratories for gross anatomy comprise two dissecting rooms and a number of smaller rooms for embalming, storing, and prosecting. A plastic studio is situated on the sixth floor adjacent to the dissecting room and is available for anatomical reconstruction work and the use of models for teaching purposes. The laboratories for histology and embryology, together with the offices and research laboratories, are situated on the third and fourth floors of the Medical Building. The equipment includes apparatus for embalming, sectioning, macerating, corroding, and digesting; microtomes, microscopes, paraffin ovens, drawing apparatus, chemicals, glassware, and Grubler stains. A small museum contains special dissections, osteological preparations, and models; sets of histological, neurological, and embryological slides; charts, lantern slides, and other teaching accessories. The departmental library contains the standard texts and about two thousand five hundred special monographs. All the English, German, and French anatomical journals are received. The Crerar Library is readily accessible and makes it possible to consult practically the whole literature of anatomy, biology, and zoology.

#### Required Courses—First Year

**22. Embryology.**—Ovogenesis and spermatogenesis, maturation, ovulation and its relation to menstruation, fertilization, segmentation, gastrulation, formation and significance of germinal layers; formation of foetal envelopes and placenta; organs, and systems of organs; congenital malformations. Lectures and recitations, 2; laboratory, 2 two-hour periods. *II (first half).* Associate Professor MOODIE and assistants

**23. Cytology, Histology, and Microscopic Anatomy.**—Animal cells; modified cells in blood and lymph, epithelial, connective, muscular, and nervous tissues, and their relationships in the body. Lectures and recitations, 3; laboratory, 3 three-hour periods. *I.* Associate Professor MOODIE and assistants

**26. Neurology.**—The gross and microscopic anatomy of the brain, spinal cord, and organs of special sense. Lectures and recitations, 2; laboratory, 2 two-hour periods. *II (second half).* Laboratory work, two periods of two hours each per week, *II (first half).* Associate Professor MOODIE and assistants

<sup>1</sup>The Arabic numerals preceding the captions indicate the number of the courses. Courses numbered with the letter X following the numeral, are optional subjects in which 1 hour of work per semester is required in the third year and 3 hours in the fourth year. Unless otherwise specifically stated, the Arabic numerals following the description of courses indicate the number of one-hour periods. The Roman numerals *I* and *II* indicate the number of semesters over which the course extends.

**27-28. Regional and Systematic Anatomy.**—Complete dissection of the human body: (1) Superior and inferior extremities, (2) thorax and abdomen, (3) the head and neck. Anatomical structure, functional significance, regional relationship of surgical and clinical importance, and structural variation of the component organs and systems. Lectures, recitations, and laboratory; 3 three-hour periods. *I, II.*

Associate Professor KAMPMEIER and assistants

### Required Courses—Second Year

**31. Topographical Anatomy.**—Topography and relations of the various regions, systems, and organs of the body. Lectures and recitations, 3; laboratory, 2 three-hour periods, *I.*

Associate Professor KAMPMEIER and assistants

**Applied and Surgical Anatomy.**—(See department of surgery.)

### Optional Courses

**50. Microscopical Technic.**—Preparation of objects; injecting blood vessels and lymphatics; maceration, digestion, and corrosion; decalcification, fixation of tissues, embedding, sectioning, staining, and mounting.

Mr. BOELIO

**53. Medical Illustrating.**—Drawing, including perspective; values and their adaption in the representation of medical subjects; normal and pathological specimens, both gross and microscopic; media adapted for representing certain conditions and structures, and for special methods of reproduction, such as line work, half tone, and lithography.

Mr. JONES

**56. Embryology and Histogenesis.**—The structural changes in the principal tissues and their cellular elements during growth; changes in the structure of cells during senescence.

Professor EYCLESYMER

**59. Neurology.**—Relation of nervous system to body growth.

Associate Professor MOODIE

### Courses Preparatory to Specialization

(Special Fee)

**62. a. The Eye.**

**b. The Ear.**

**c. Mouth, Nose, and Throat.**

**d. The Thorax and Abdomen.**

**e. The Genito-Urinary System.**

**f. Pelvic Anatomy.**

**g. The Extremities,** especially the joints and their mechanism.

**h. The Brain and Spinal Cord.**

**Research.**—Physicians who desire to do research and students who have had three years of university training are invited to begin research work in this department. A reading knowledge of French and German is essential.

**65-66. Seminar.**—Critical reviews of recent anatomical literature; preparation of bibliographies and of scientific papers for publication. Presentation and discussion of the results of investigations.

### Courses for Graduates

**101. Histogenesis.**—The structural changes in tissues and their elements, which are directly correlated with normal processes, such as growth, activity, rest, fatigue, senility. One unit.

Professor EYCLESYMER, Associate Professor MOODIE

**103. Individual Research in Embryology and Histogenesis.**—One or two units.

Professor EYCLESYMER, Associate Professor MOODIE

**DERMATOLOGY**

FRANCIS EUGENE SENEAR, M.D., *Assistant Professor and Acting Head of the Department*  
 JULIAN MARKS, M.D., *Assistant*

**Required Courses—Fourth Year**

1. Practise.—Illustrated. 1. *I.* Dr. SENEAR
  5. Clinic.—College. 1. *II.* Dr. SENEAR, Dr. MARKS
  - 9-10. Clinic.—College Dispensary. In sections. 3 one-hour periods (*three weeks*).
- II.*

**LARYNGOLOGY, RHINOLOGY, AND OTOTOLOGY**

NORVAL HARRY PIERCE, M.D., *Professor and Head of the Department*  
 JOSEPH C BECK, M.D., *Associate Professor*  
 GEORGE WILLIAM BOOT, M.D., *Assistant Professor*  
 EDWARD FRANCIS GARRAGHAN, A.M., M.D., *Associate*  
 WALTER HENRY THEOBALD, M.D., *Associate*  
 JACQUES HOLINGER, M.D., *Associate*  
 WILLIAM CLYDE COMEE, M.D., *Instructor*  
 CHARLES FRANCIS YERGER, M.D., *Instructor*  
 HIRAM JASON SMITH, M.D., *Instructor*

**Departmental Statement**

The fundamentals of diseases of the nose, throat, and ear based on anatomy, physiology and pathology of these organs, and the clinical manifestations of their more common diseases furnish the basis of the work in this department. Stress will be laid on the relationship of these special organs to the body as a whole in health and disease. Teaching will be facilitated by laboratory studies by Bezold's large models of the ear, macerated specimens of the nose, throat and ear; by lantern slides and stereoptic demonstrations, as well as by actual examination of individuals in the out patient department and in the hospital.

**Required Courses—Third Year**

3. Practise.—The surgical anatomy, physiology, and pathology of the ear, nose, and throat. 1. *I.* Professor PIERCE and Associate Professor BECK
7. Clinic.—Illinois Eye and Ear Infirmary. Diseases of the Ear, Nose, and Throat. In sections; 2. *I. (eight weeks).*
11. Practise.—The diseases of the throat and nose. 1. *I.*
17. Clinical Conference.—Cook County Hospital. Training in the use of instruments for the examination of the ear, nose, and throat. In sections; *I. (four weeks).*  
 Assistant Professor BOOT
- 19-20. Clinic.—College dispensary. In sections; 3 (*three weeks*). *II.*  
 Dr. GARRAGHAN, Dr. THEOBALD, Dr. YERGER, Dr. COMEE, Dr. SMITH

**MEDICINE**

CHARLES SPENCER WILLIAMSON, M.S., M.D., *Professor of Medicine and Head of the Department*

## DIVISION OF INTERNAL MEDICINE

CHARLES SPENCER WILLIAMSON, M.S., M.D., *Professor of Medicine*  
 FREDERICK TICE, M.D., *Professor of Medicine*  
 MAURICE LOUIS GOODKIND, M.D., *Professor of Medicine*  
 JOSEPH MCINTYRE PATTON, M.D., *Professor of Medicine*  
 FRANK SMITHIES, M.D., *Associate Professor of Medicine*  
 EDWARD LOUIS HEINTZ, Ph.G., M.D., *Associate Professor of Medicine and Clinical Medicine*  
 MAURICE LEWISON, M.D., *Associate Professor of Physical Diagnosis*  
 ARTHUR RICHARD ELLIOTT, M.D., C.M., *Associate Professor of Medicine*  
 JOHN WEATHERSON, C.E., M.D., *Associate Professor of Medicine*  
 SIDNEY STRAUSS, M.D., *Associate Professor of Medicine*  
 ERNEST SISSON MOORE, M.D., *Assistant Professor of Medicine*  
 FRANK CHAUVET, M.D., *Assistant Professor of Physical Diagnosis*  
 GEORGE JOHN LORCH, Ph.G., M.D., *Associate in Medicine*  
 JOHN CHARLES MATHEW KRASA, M.D., *Associate in Medicine*  
 WALTER BRADFORD METCALF, M.D., *Associate in Clinical Medicine*  
 FRANKLIN S WILSON, Ph.G., M.D., *Associate in Clinical Medicine*  
 WILLIAM JOSEPH QUIGLEY, M.D., *Associate in Medicine*  
 FRANK JOSEPH JIRKA, M.D., *Instructor in Clinical Medicine*  
 ALBERT VANDER KLOOT, M.D., *Instructor in Medicine*  
 LEO JACOB JACOBSON, M.D., *Assistant in Medicine*  
 ELMER W MOSELEY, M.D., *Assistant in Medicine*  
 WILLIAM T ROGERS, M.D., *Assistant in Medicine*  
 WILLIAM ALEXANDER MALCOLM, M.D., *Assistant in Medicine*  
 ROBERT JAMES HYSLOP, M.D., *Assistant in Medicine*  
 VINCENT BRENDAN BOWLER,<sup>1</sup> M.D., *Assistant in Medicine*

## General Statement

The work in this department begins in the second year and extends through the third and fourth years. In the second year the student begins his work in internal medicine with the study of physical diagnosis, on the normal subject. This is followed by the study of pathological cases. The class is divided into small groups, so that the instruction is individual.

Coincident with the above work, the student takes up the study of laboratory diagnosis. A course in this subject lays the foundation for the practical clinical work in the dispensary, which begins in the third year and is carried through the fourth year.

In the third year instruction is carried on partly by means of conferences and recitations and partly by clinics. This division of work enables the student not only to obtain systematic instruction in the fundamentals of internal medicine, but also to see clinical cases presented, bearing directly on this systematic instruction. At the same time he has opportunity to come into intimate contact with patients, and to examine them in the dispensary under supervision. Stress is laid upon the student's personal examination and treatment of the cases.

In the fourth year instruction is carried on partly by means of conferences with group quizzes on the topics covered. This is a continuation of the work in the third year. A large part of the work, however, is clinical, and is given not only in the College, but in the Cook County, University, St. Luke's, and Augustana Hospitals. In addition, practical work is given in the dispensary in the various medical specialties.

Special emphasis is laid upon clinical work given to small groups.

<sup>1</sup>Second semester.

**Required Course—Second Year**

**2a-2b. Physical Diagnosis.**—(a) Lectures; 1. *I*. (b) Practical drill on normal subjects; given to small sections of the class. 1 two-hour period. *I*.

Associate Professor LEWISON, Assistant Professor CHAUVET

**Required Courses—Third Year**

**9. Practise.**—General survey of the important diseases as a working basis preparatory for the clinical courses. Conferences and recitations. 4. *II*.

Associate Professor HEINTZ, Dr. LORCH, Dr. KRASA, Dr. ROGERS

**13. Clinic.**—University Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Assistant Professor HEINTZ

**15. Clinic.**—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Associate Professor LEWISON

**23. Physical Diagnosis Clinics.**—Cook County Hospital, tuberculosis wards. To small groups. 1. *I*. Associate Professor LEWISON, Assistant Professor CHAUVET

**27-28. Clinic.**—Dispensary. Practical work on out-patients. Practically every variety of disease of an ambulatory nature common to the temperate zone may be seen here. In sections, 3 two-hour periods (*three weeks*). *II*.

Assistant Professor MOORE, Dr. METCALF, Dr. WILSON, Dr. MOSLEY, Dr. MAYERS, Dr. JIRKA

**Required Courses—Fourth Year**

**31-32. Practise.**—Continuation of course of study of previous year; subject elaborated and amplified in conjunction with the clinical work. Lectures illustrated by pathological specimens, charts, and lantern slides; conferences; 4, *I*; 2, *II*.

Lectures, Professor WILLIAMSON, Professor TICE  
Conferences and recitations, Associate Professor WEATHERSON

**35. Clinic.**—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Professor WILLIAMSON

**37. Clinic.**—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Professor TICE

**39. Clinic.**—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Associate Professor STRAUSS

**41. Clinic.**—St. Luke's Hospital. Gastro-intestinal, cardio-vascular, and renal diseases. Diagnostic analysis. Collateral reading. 1 two-hour period. *I*. Associate Professor ELLIOTT

**47. Clinic.**—Augustana Hospital. 1 two-hour period. *I*. Associate Professor SMITHIES

**49-51. Seminar.**—Work in cooperation with the departments of surgery and obstetrics. The student receives 48 hours credit, 16 in each department, altho the work is done only in one department. The entire class is divided into three groups, and each of these again into three sub-groups. During the first semester, the groups meet informally and abstracts are prepared and submitted for criticism. During the second semester, each group is assigned one hour in which to present its work before the entire class.

Professor WILLIAMSON, Professor HESS, Assistant Professor MOORE



## Optional Courses—Third Year

- |  |             |
|--|-------------|
| 1-X. Tuberculosis.                         | Dr. QUIGLEY |
| 2-X. Tuberculosis of the Lymphatic System. | Dr. METCALF |

## Optional Courses—Fourth Year

- |   |                              |
|---|------------------------------|
| 3-X. Diseases of the Blood. ( <i>Eight weeks.</i> ) | Assistant Professor MOORE    |
| 4-X. Tuberculosis. ( <i>Eight weeks.</i> )          | Assistant Professor MOORE    |
| 5-X. Diseases of the Heart.                         | Associate Professor STRAUSS  |
| 6-X. Diseases of Pancreas and Intestines.           | Associate Professor SMITHIES |

## DIVISION OF PEDIATRICS

JULIUS HAYES HESS, M.D., *Professor of Pediatrics and Head of the Division*  
 HENRY EUGENE IRISH, M.D., *Assistant Professor of Pediatrics*  
 MAURICE LAMM BLATT, M.D., *Assistant Professor of Pediatrics*  
 LESTER EDWARD BOWER, M.D., *Associate in Pediatrics*  
 SOLOMON MAXWELL GOLDBERGER, M.D., *Instructor in Pediatrics*  
 ISADOR MICHAEL LEVIN, S.A., M.D., *Instructor in Pediatrics*  
 CRAIG D BUTLER, M.D., *Assistant in Pediatrics*  
 JOSEPH K CALVIN, M.D., *Assistant in Pediatrics*  
 MAXWELL P BOROVSKY, M.D., *Assistant in Pediatrics*  
 SIDNEY R KALISKI, M.D., *Assistant in Pediatrics*  
 PHILIP ROSENBLUM, M.D., *Assistant in Pediatrics*  
 ROBERT LUDWIG FURBY, M.D., *Assistant in Pediatrics*  
 ANNA ISHAM ROBINSON, M.D., *Assistant in Pediatrics*

## General Statement

The work in pediatrics is given in the third and fourth years. So far as possible, the course is one of individual instruction, the class being divided into small groups for clinical work.

## Required Courses—Third Year

1. **Practise and Clinic.**—Nutrition and nutritional disturbances in infancy. Lectures; clinical conferences. 1. *I.* Professor HESS
4. **Practise.**—Recitations. 1. *I.* Assistant Professor IRISH and assistants
7. **Clinic.**—Cook County Hospital. Physical diagnosis and demonstration of cases. In groups; 2 (*four weeks*). Assistant Professor BLATT
9. **Clinic.**—Cook County Hospital. Contagious diseases. In groups; 2 (*four weeks*). Dr. BOWER

## Required Courses—Fourth Year

11. **Clinic.**—Cook County Hospital. Contagious diseases. In groups; 2 (*four weeks*). *I.* Assistant Professor IRISH
- 15-16. **Clinic.**—Dispensary. In sections; two-hour periods (*eighteen periods*). *I.* Dispensary Staff
19. **Clinic.**—Cook County Hospital. In groups. One two-hour period. *I.* Professor HESS

## DIVISIONS OF NEUROLOGY AND PSYCHIATRY

H DOUGLAS SINGER, M.D., M.R.C.P., *Professor of Psychiatry and Head of the Division*  
 ISADORE LEON MEYERS,<sup>1</sup> M.D., *Associate Professor of Neurology*  
 GEORGE BORIS HASSIN, M.D., *Associate Professor of Neurology*  
 CHARLES F READ, M.D., *Assistant Professor of Neurology and Psychiatry*  
 EDWARD FRANKLIN LEONARD, M.D., *Assistant Professor of Neurology*  
 RALPH CHES PURNELL TRUITT, M.D., *Assistant Professor of Neurology and Psychiatry*  
 SAMUEL N CLARK, M.D., *Instructor in Neurology and Psychiatry*

**3-4. Practise and Clinic.**—Dispensary, Cook County Hospital, and Chicago State Hospital. Lectures, demonstrations, examination and diagnosis; in sections; 6 two-hour periods (*eight weeks*) *I*, and 1 two-hour period. *I*.

Professor SINGER, Associate Professor MEYERS, Associate Professor HASSIN, Assistant Professor READ, Assistant Professor LEONARD, Assistant Professor TRUITT, Dr. CLARK, Dr. HULBERT.

## DIVISION OF ROENTGENOLOGY

ADOLPH HARTUNG, M.D., *Assistant Professor of Roentgenology*  
 HONORE DIEUDONNE VALIN, M.D., *Technician in Roentgenology and Dispensary Laboratory*

## Required Course—Fourth Year

**4. Practise and Demonstration.**—College. The use of the X-ray in medicine and surgery. To small sections: 1 (*four weeks*).

## DIVISION OF HISTORY OF MEDICINE

BERNARD JOHN CIGRAND, M.S., D.D.S., *Lecturer*

## Optional Course—Fourth Year

**51. Lectures; 1. *I*.**

## OBSTETRICS AND GYNECOLOGY

CHARLES SUMNER BACON, M.D., *Professor of Obstetrics and Clinical Obstetrics and Head of the Department*  
 HENRY FOSTER LEWIS, M.D., *Professor of Obstetrics and Clinical Obstetrics*  
 RACHELLE S YARROS, M.D., *Associate Professor of Obstetrics and Clinical Obstetrics*  
 OTTO HERMAN ROHRLACK, Ph.G., M.D., *Associate Professor of Obstetrics and Clinical Obstetrics*  
 WALTER CHARLES HAMMOND, M.D., *Associate in Obstetrics*  
 ANNIE ESTHER BARRON-HARRISON, M.D., *Instructor in Obstetrics*  
 EDWARD MORTON HEACOCK, M.D., *Instructor in Obstetrics*  
 HANS NACHTIGALL, M.D., *Instructor in Obstetrics*  
 WOODRUFF LYNDEN CRAWFORD, M.D., *Assistant in Obstetrics*  
 AUBREY PEMBER, B.S., M.D., *Assistant in Obstetrics*  
 M RUTH MCGUIRE, M.D., *Assistant in Obstetrics*

## General Statement

Instruction is given in both the third and fourth years. The equipment consists of manikins, demonstration pelves, malformed pelves, and other pathological specimens, charts, obstetrical instruments, and prepared fetuses.

<sup>1</sup>On leave of absence, second semester.

The clinical work is given in the University Hospital, the College Dispensary, and the Chicago Lying-In Hospital and Dispensary. Bedside and dispensary clinics, in which students examine and study the patients, are given to small groups in the College Dispensary and in the University Hospital. Students are required also to assist in the delivery of twelve parturients. Reports of these cases are kept by students and form the basis of conference discussions. An amphitheater clinic is given to the fourth-year class.

All fourth-year students are required to take a course of two weeks in residence in the Chicago Lying-In Hospital and Dispensary. This Dispensary, located in the heart of a densely populated part of the city, cares for poor women during their confinement at their homes. A physician, a student, and a nurse are sent to care for the patient during her labor. A student and nurse visit her daily for ten days afterward. The fee for the course is \$15.00, payable in advance at the Dispensary.

### Required Courses—Third Year

**5-6. Physiology of Pregnancy, Labor, the Puerperium, and the New Born Infant.**—Lectures and recitations; 2. *II.* Associate Professor YARROS, Dr. HEACOCK

Laboratory.—The anatomy and histology of the obstetrical passages and passenger. To small groups, 1 two-hour period (*four weeks*). Dr. NACHTIGALL

**9. Clinic.**—University Hospital. Instruction at bedside and in the out-patient department. The class is divided into groups. 6 (*two weeks*).

Professor BACON, Associate Professor ROHRACK, Dr. BARRON-HARRISON

**12. Clinic.**—University Hospital. The class is divided into groups. The work covers attendance upon the delivery of six parturients.

### Required Courses—Fourth Year

**15-16. Pathology of Pregnancy, Labor, and the Puerperium.**—Lectures and recitations; 3. *I.* Professor BACON, Associate Professor ROHRACK, Dr. NACHTIGALL

(a) Laboratory work in pathological anatomy and histology. To small groups, 1 two-hour period (*four weeks*). Dr. NACHTIGALL

(b) Manikin work. To small groups; 1 two-hour period, (*eight weeks*).

Professor LEWIS, Dr. MCGUIRE

**19. Clinic.**—Cook County Hospital. To small groups, 3 (*four weeks*).

Professor LEWIS

**22. Clinic.**—University Hospital. Demonstrations and operations. 1. *I.*

Professor BACON

**25. Clinic.**—University Hospital. To small groups. The work covers attendance upon the delivery of six parturients.

**26. Clinic.**—Chicago Lying-In Hospital and Dispensary. Residence, two weeks; at least six cases.

**47-48. Seminar.**—This work is done in cooperation with the Departments of Medicine and Surgery. For this work the student receives 48 hours credit, 16 in each department, altho the work is done only in one department. The class is divided into three groups, and each of these again into five sub-groups. The purpose of this seminar is to give the student a working knowledge of the medical literature, and to acquaint him with the

methods of looking up the work which has been done on any special subject. During the first semester the groups will meet informally, but abstracts will be prepared and submitted for criticism, and the student will be graded on the basis of these abstracts. During the second semester each group will be assigned one hour in which to present its work before the entire class.

Professor LEWIS, Associate Professor YARROS, Associate Professor ROHRLACK, Dr. STONE.

### Optional Course—Third Year

- 1-X. Review Course in Obstetrics. 1. I. Dr. CRAWFORD, Dr. PEMBER

### Optional Courses—Fourth Year

- 3-X. Review Course in Obstetrics. 1. I. Dr. CRAWFORD, Dr. PEMBER  
 4-X. Review Course In Obstetrics. 1. I. Dr. CRAWFORD, Dr. PEMBER  
 5-X. Oxytocics. Professor BACON

## DIVISION OF GYNECOLOGY

CHANNING W BARRETT, M.D., *Professor of Gynecology and Head of the Division*

JOHN MICHAEL LANG, M.D., *Assistant Professor of Clinical Gynecology*

EGAN WALTER FISCHMANN, M.D., *Assistant Professor of Gynecology*

ALBERT JOHN SCHOENBERG, M.D., *Associate in Gynecology*

FRANK LEE STONE, M.D., *Associate in Gynecology*

LEO ANTHONY JUHNKE, M.D., *Instructor*

GOLDYE HOFFMAN, M.D., *Assistant*

### General Statement

The subject of Gynecology is presented in the fourth year in the form of didactic teaching, recitations, quizzes, clinics, conferences and laboratory and class room study of pathology of the pelvic organs.

### Required Courses—Fourth Year

3. Practise.—Lectures, recitations, lantern slide demonstrations, exhibition of fresh and preserved pathological tissue and illustrations by means of charts and models. 1. II. Professor BARRETT, Assistant Professor FISCHMANN, Dr. STONE

7. Clinic.—Cook County Hospital. One two-hour period. I. Professor BARRETT

15-16. Clinics.—Dispensary. Students in small groups have opportunity to study cases in detail. Students are required to make examinations, study cases, and write reports. In as far as the students' time permits the dispensary cases will be followed through the operative course. In sections. Three two hour periods (*three weeks*). II.

Assistant Professor LANG, Assistant Professor FISCHMANN, Dr. SCHOENBERG, Dr. STONE, Dr. JUHNKE, Dr. HOFFMAN

## OPHTHALMOLOGY

EDWARD VAIL LAPHAM BROWN, M.D., *Professor of Clinical Ophthalmology and Head of the Department*

ANDY M CARR, M.D., *Instructor*

HALLARD BEARD, M.D., *Assistant in Ophthalmology*

CHESTER H LOCKWOOD, M.D., *Assistant in Ophthalmology*

MARGARET AMERTON HEATH, A.B., *Refractionist*

**Required Course—Fourth Year**

**3-4. Clinic and Practise.**—Dispensary, clinic and laboratory course.

In the clinical work emphasis is placed on standard methods of diagnosis. This includes 16 to 20 hours on the normal and pathological anatomy of the eye, 8 to 12 hours' practise in the use of the ophthalmoscope, perimeter, retinoscope, tonometer and test charts. The balance of the 48 required, and 16 optional hours are spent in the study of eye cases which the general practitioner most frequently encounters. 3. *I.*

Professor BROWN, Dr. CARR, Miss HEATH

**PATHOLOGY AND BACTERIOLOGY**

DAVID JOHN DAVIS, M.D., Ph.D., *Professor of Pathology and Bacteriology and Head of the Department*

JOSIAH JOHN MOORE, M.D., M.S., *Assistant Professor in Pathology and Bacteriology*

WILLIAM F PETERSEN, A.B., M.D., *Associate in Pathology and Bacteriology*

JOHN NIZUM, M.D., *Associate in Pathology and Bacteriology*

HORRY MATTHEW JONES, Ph.D., *Instructor in Pathology and Bacteriology*

ISADOR PILOT, M.D., *Instructor in Pathology and Bacteriology*

SAMUEL A LEVINSON,<sup>1</sup> M.D., *Instructor in Pathology and Bacteriology*

NELLIE PARKINSON, *Technician*

CARRIE WALTON, *Technician*

JOSEPH LEPAK, *Technician*

**Required Course—Second Year**

**11. General Bacteriology and Protozoology.**—Pathogenic bacteria and protozoa. Immunity. Lectures; demonstrations; 3. *I*, laboratory; 2 three-hour periods. *I.*

Professor DAVIS, Assistant Professor MOORE, and assistants

**Required Courses—Second Year**

**17a-18. General Pathology and Pathological Histology.**—General pathology; gross and microscope study of fresh and preserved pathological material. Lectures; recitations, demonstrations; 4. *I*, laboratory, 4 two-hour periods; *I.*

Dr. NUGUM, Dr. PETERSEN, and assistants

**22. Clinical Pathology.**—Microscopic, bacteriologic, and chemical examination of blood, urine, sputum, faeces, stomach contents, exudates, etc. 8. *II (eight weeks).*

Dr. JONES, Dr. PILOT, and assistants

**Required Courses—Third Year**

**26. Special Pathology and Autopsies.**—Gross and microscopic examination of organs, autopsies, post-mortem bacteriology and experimental pathology. Three two-hour periods. *II.*

Professor DAVIS, Dr. PILOT, and assistants

**Optional Courses**

**50. Advanced Work and Research in Bacteriology.**—Limited to properly qualified students.

Professor DAVIS, Assistant Professor MOORE

**51. Advanced Work in Special Diagnostic Laboratory Methods.**—Limited to a few qualified students.

Dr. JONES

**55. Diagnosis of Tumors.**—Open to students who have had courses in general and special pathology. *I.*

Dr. PETERSEN

<sup>1</sup>Second semester.

**Courses for Graduates**

101. **Advanced Pathogenesis.**—Etiology and pathogenesis of certain diseases; lower animals in the transmission of human diseases. *One unit.* Professor DAVIS

105. **Individual Research.**—One or two units. Professor DAVIS

**PHARMACOLOGY, MATERIA MEDICA AND THERAPEUTICS**

HUGH ALISTER MCGUIGAN, Ph.D., M.D., *Professor and Head of the Department*

ROBERT WOOD KEETON,<sup>1</sup> M.S., M.D., *Assistant Professor of Pharmacology and Therapeutics*

HARVEY VICTOR ATKINSON, B.S., *Instructor in Pharmacology*

CLYDE MASON SNOW, Ph.G., M.D., *Instructor in Materia Medica and Pharmacology*

WALTER JOHN RICHARD HEINEKAMP, M.S., *Assistant in Pharmacology*

MANFRED ULLMAN PRESCOTT, B.S., *Student Assistant*

HURST J RUTLEDGE, B.S., *Student Assistant*

HARRY JOSEPH SCHLECK, *Technician*

**Required Courses—Second Year**

8. **Materia Medica and Pharmacy.**—Prescription writing. Lectures, recitations; 3; *I.* Laboratory and demonstrations; 1 two-hour period; *I.*

Mr. SNOW, Professor MCGUIGAN, and assistants

10. **Pharmacology and Materia Medica.**—Pharmacodynamics; chemistry of drugs. Lectures, recitations; 2. *I.* Laboratory; one three-hour period; toxicology; *I.* Laboratory, 1 three-hour period.

Professor MCGUIGAN, Assistant Professor KEETON, and assistants

12. **Toxicology.**—Lectures, recitations; 1. *I.* Laboratory, one three-hour period.

Professor MCGUIGAN and assistants

**Required Course—Third Year**

20. **General Therapeutics.**—2. *I.*

Professor MCGUIGAN, Assistant Professor KEETON

**Optional Course**

**Research.**—The laboratory is open at all times for those qualified to engage in research work. Professor MCGUIGAN, Assistant Professor KEETON

**Courses for Graduates**

101. **Advanced Pharmacodynamics.**—Laboratory work.—*One unit.*

Professor MCGUIGAN

103. **Research Work in Pharmacodynamics.**—*One or two units.*

Professor MCGUIGAN

**PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY**

GEORGE PETER DREYER, Ph.D., *Professor and Head of the Department*

WILLIAM HENRY WELKER, A.C., Ph.D., *Associate Professor of Physiological Chemistry*

PAUL GERHARD ALBRECHT, Ph.D., *Associate in Physiological Chemistry*

GROVER TRACY, A.B., *Instructor in Physiological Chemistry*

JAMES TOBIAS GROOT, *Instructor in Physiology*

HUBBARD PRATHER SAUNDERS, M.D., *Assistant in Physiology*

JESSE LOUIS BOLLMAN, M.S., *Assistant in Physiological Chemistry*

CARL THOMPSON STEPHEN, M.D., *Assistant in Physiology*

CLARENCE CHARLES SÆLHOF, M.S., *Assistant in Physiological Chemistry*

ARTHUR ALBERT LUCAS, *Technician in Physiology*

MAXIMO MANEGO DEOCAMPO,<sup>2</sup> Ph.D., *Technician in Chemistry*

FREDERICK DAVID SCHMIDT,<sup>3</sup> *Technician in Physiology and Physiological Chemistry*

<sup>1</sup>Resigned November 30, 1920.

<sup>2</sup>Resigned January 21, 1921.

<sup>3</sup>Second semester.

### General Statement

The course in physiology is articulated in the curriculum to secure the maximal degree of correlation, and duly emphasizes the laboratory work. The standard equipment as ordinarily provided for the fundamental experiments of the science, is supplemented by special apparatus for the study of clinical problems relating to circulation, respiration, vision, and the nervous system.

The laboratory exercises are selected not only to illustrate and to vitalize the subject-matter of the didactic course, but also to supply valuable technical training and to develop interest in the methods and problems of original investigation. Facilities and equipment are available for those who desire to take advanced work or engage in research.

For the work in chemistry, two laboratories are equipped for routine instruction and one for original work. Additional rooms for the preparation of class work and for metabolism experiments are connected with these laboratories. For the use of advanced students and investigators the nucleus of a chemical library, embracing the principal works of reference, is kept in the laboratory itself; while the main library contains complete files of the more important journals of biochemistry.

### Required Course—First Year

**20. Physiology.**—Blood and lymph, muscle and nerve, circulation, and respiration. Lectures and recitations, 3; demonstration and laboratory, 2 two-and-a-half-hour periods.

Professor DREYER and assistants

**21. Organic Chemistry.**—Biological chemistry; fats, proteins, and carbohydrates. Lectures; demonstrations; conferences; 2; laboratory, 2 three-hour periods. *I.*

Dr. ALBRECHT and assistants

**24. Physiological Chemistry and Toxicology.**—Lectures; demonstrations; conferences, 2; laboratory, 2 three-hour periods. *II.*

Associate Professor WELKER, Dr. ALBRECHT, and assistants

*Prerequisite:* Course 21 or its equivalent.

### Required Course—Second Year

**25. Physiology.**—Digestion; secretion; metabolism; the special senses; the central nervous system. Lectures; recitations; demonstrations; 4; laboratory; 1 four-hour period. *I.*

Professor DREYER and assistants

### Optional Courses

**51. Advanced Laboratory Work.**—Physiological demonstration and research; graphic methods. Professor DREYER

**53. Quantitative Urinary Analysis.**—Lecture, one hour a week; laboratory, six hours a week. *I.* Associate Professor WELKER, Mr. TRACY

**54. Sanitary Chemistry.**—Water and sewage analysis; purification. Lecture, one hour a week; laboratory, six hours a week. *II.* Associate Professor WELKER

**59. Food Analysis.**—Composition, adulteration, preservation. Lecture, one hour a week; laboratory, six hours a week. *I.* Mr. TRACY

**Research.**—The laboratories are open to persons with the requisite scientific training for the conduct of original investigations under the direction of the members of the staff.

**63-64. Seminar.**—The members of the teaching staff and all advanced workers in the department meet weekly to discuss results of recent researches in physiology and biological chemistry.

*Prerequisite for optional courses:* In physiology—courses 20 and 23; and in chemistry, courses 21 and 24.

**Courses for Graduates**

**103. Advanced Biological Chemistry.**—Biochemical methods of research; biological colloids; enzyme action; metabolism. *One or two units.* Associate Professor WELKER

**107. Biochemical Research.**—*One or two units.* Associate Professor WELKER

**SOCIAL HYGIENE, CRIMINOLOGY, AND MEDICAL  
JURISPRUDENCE**

HERMAN MORRIS ADLER, A.M., M.D., *Professor of Criminology and Head of the Department*

ELMER DEWITT BROTHERS, M.S., LL.B., *Lecturer in Medical Jurisprudence*

MATTHEW MILLS, LL.B., *Alternate Lecturer in Medical Jurisprudence*

**Required Course—Third Year**

**4. Hygiene and Public Health.**—General etiology, immunity, contagious diseases, epidemiology, and preventive medicine; organization of health departments and the work of divisions of the same; vital statistics, inspection of schools and factories; food supply and control; public welfare. Lectures and practical work.  $3\frac{1}{2}$  hours per week. *I.*

Professor ADLER

**6. Medical Jurisprudence.**—The principles of law governing individual and professional rights and obligations; responsibilities arising from the relation of physician and patient; confidential character and inviolability of such relation; medical laws of the various states. Lectures, 1. *I.*

Mr. BROTHERS

**SURGERY**

CHARLES DAVISON, A.M., M.D., *Professor and Head of the Department*

**DIVISION OF GENERAL SURGERY**

CHARLES DAVISON, A.M., M.D., *Professor of Surgery and Clinical Surgery*

ALBERT JOHN OCHSNER, M.D., LL.D., *Professor of Surgery and Clinical Surgery*

ALBERT EDWARD HALSTEAD, M.D., *Professor of Surgery and Clinical Surgery*

WILLIAM MCINTYRE HARSHA, M.D., *Professor of Surgery and Clinical Surgery*

CHARLES EDWARD HUMISTON, M.D., *Professor of Surgery*

FRANK DONALD MOORE, M.D., *Professor of Surgery*

NELSON MORTIMER PERCY, M.D., *Associate Professor of Clinical Surgery*

GEORGE FARNSWORTH THOMPSON, M.D., *Associate Professor of Clinical Surgery*

KARL ALBERT MEYER, M.D., *Associate Professor of Surgery and Clinical Surgery*

JOHN ROSS HARGER, M.D., *Assistant Professor of Surgery*

CHARLES HERBERT PHIFER, M.D., *Assistant Professor of Surgery*

CASSIUS CLAY ROGERS, A.M., M.D., *Assistant Professor of Surgery*

RAYMOND WILLIAM MCNEALY, M.D., *Assistant Professor of Clinical Surgery*

GEORGE LUTHER DAVENPORT, M.D., *Assistant Professor of Clinical Surgery*

ARRIE BAMBERGER, M.D., *Associate in Surgery*

OSCAR EUGENE NADEAU, M.D., *Associate in Surgery and Surgical Pathology*

HENRY LESTER BAKER, M.D., *Associate in Surgery*

GEORGE WASHINGTON POST, A.M., M.D., *Associate in Surgery*

ERNEST JASON FORD, M.D., *Associate in Surgery*

MAX MEYEROVITZ, M.D., *Instructor in Clinical Surgery*

EDWAIN CHRISTIAN SCHMITT,<sup>1</sup> A.M., M.D., *Instructor in Surgery*

<sup>1</sup>On leave of absence.



LYNDON HARRIS, M.D., *Instructor in Clinical Surgery*  
 CLARA GRACE GOTTSCHALK, M.D., *Assistant in Clinical Surgery*  
 FREDERICK CHRISTOPHER, M.D., *Assistant in Experimental Surgery*  
 HANBY LEWIS FORD, M.D., *Assistant in Surgery*  
 PAUL STERLING CARLEY, M.D., *Assistant in Surgery*  
 VIRGIL SHEETS COUNSELLOR, M.D., *Assistant in Surgery*  
 BENJAMIN BRAUDE, M.D., *Assistant in Surgery*  
 IRVING R BROWNING, M.D., *Assistant in Surgery*

### Required Courses—Third Year

3-4. **Practise.**—Surgery and surgical pathology. Conferences, recitations. In sections; 2. *II.* Assistant Professor PHIFER, Dr. NADEAU, Dr. POST, Dr. BAMBERGER

7-8. **Clinic.**—Dispensary. Diagnosis, bandaging, surgical dressings and appliances. Three two-hour periods (*three weeks*). *II.*

Assistant Professor HARGER, Dr. BAMBERGER, Dr. POST, Dr. HARRIS

9. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Assistant Professor MCNEALY

10. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Associate Professor THOMPSON

11. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Associate Professor MEYER

12. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Assistant Professor DAVENPORT

19. **Anesthetics.**—Practical demonstrations to individual students in the administration of anesthetics at Cook County Hospital. Conferences; recitations. To small sections; 1 (*four weeks*). Associate Professor MEYER

### Optional Courses—Third Year

1-X. **Anesthetics, Surgical Dressings and Bandaging.**—Individual instruction and demonstration of the application of surgical dressings. 1. *I.* Dr. BAKER

2-X. **Surgical Diagnosis.**—1. *I.*

Assistant Professor MCNEALY

3-X. **Principles of Surgery.**—A review course, 1. *I.*

Associate Professor MEYER, Dr. FORD, Dr. CARLEY

4-X. **Special Fractures.** 1. *I.*

Assistant Professor DAVENPORT

5-X. **Operative Surgery of the Abdomen on Animals.**—1. *I.*

Dr. GRAHAM, Dr. MUSTELL

6-X. **Preoperative and Postoperative Treatment.** 1. *I.*

Dr. NADEAU

### Required Courses—Fourth Year

23-24. **Practise.**—Regional surgery. Conferences, recitations. In sections. 1. *I.*

Professor HUMISTON, Associate Professor MOORE, Assistant Professor LOUNSBURY, Assistant Professor ROGERS.

29. **Clinic.**—University Hospital. 1 two-hour period. *I.*

Professor DAVIDSON, Dr. MEYEROVITZ

31. **Clinic.**—St. Mary's Hospital. 1 two-hour period. *I.*

Professor OCHSNER, Associate Professor PERCY

32. Clinic.—Augustana Hospital. 1 two-hour period. *I.*  
Professor OCHSNER, Associate Professor PERCY
33. Clinic.—St. Luke's Hospital. 1 two-hour period. *I.*  
Professor HALSTEAD, Professor HARSHBARGER
34. Clinic.—Cook County Hospital. 1 two-hour period. *I.*  
Associate Professor THOMPSON
35. Clinic.—Cook County Hospital. 1 two-hour period. *I.*  
Assistant Professor MCNEALY
36. Clinic.—Cook County Hospital. 1 two-hour period. *I.*  
Assistant Professor DAVENPORT
- 37a. Clinic.—Cook County Hospital. Bedside conference in surgical diagnosis. 1. *I.*  
Associate Professor MEYER
- 37b. Clinic.—Cook County Hospital. *Individual Bedside Instruction in Surgical Diagnosis.* Record writing, symptoms, physical examination, roentgenogram interpretation, laboratory examination of materials from the patient secured in the ward, operating room, or morgue. One two-hour period. *I.*  
Professor DAVIDSON, Dr. GOTTSCHALK
41. Surgical Pathology.—Laboratory. In sections. One two-hour period (*eight weeks*).  
Dr. NADEAU
- 43-44. Surgical Seminar.—Work done in cooperation with the departments of medicine and obstetrics. For this work the student receives 48 hours credit, 16 in each department, altho the work is done in one department only. The purpose is to give the student a working knowledge of the medical literature, and to acquaint him with the methods of looking up the work which has been done on any special subject. During the first semester, the groups will meet only informally, and abstracts will be prepared and submitted for criticism. During the second semester, each group will be assigned one hour in which to present its work before the entire class.  
Assistant Professor HARGER

### Optional Courses—Fourth Year

#### Advanced Work in Special Subjects

- 6-X. Surgery of the Abdomen.—Lectures, conferences, recitations. 1. *I.*  
Assistant Professor MEENTS
- 7-X. Surgical Tuberculosis.—Lectures, conferences, recitations. 1. *I.*  
Assistant Professor THOMAS
- 8-X. Regional Surgery.—A review course. 1. *I.*  
Assistant Professor MEYER, Dr. MONCREIFF
- 9-X. Surgery of the Brain and Spinal Cord.—Lectures, conferences, recitations. 1. *I.*  
Assistant Professor ROGERS
- 10-X. Surgery of the Thorax.—Lectures, conferences, recitations. 1. *I.*  
Associate Professor THOMPSON
- 12-X. Surgical Diseases of the Kidneys. 1. *I.*  
Assistant Professor CULVER

## DIVISION OF ORTHOPEDIC SURGERY

HENRY BASCOM THOMAS, M.D., *Assistant Professor*JOHN PERLEY SPRAGUE, M.D., *Associate*MARCUS HATFIELD HOBART, M.D., *Instructor*THOMAS JOHN SULLIVAN, JR., M.D., *Instructor*DENNIS RIDER WOOD CRILE, M.D., *Instructor*WALTER RATHBON FISCHER, M.D., *Assistant*

## Required Courses—Third Year

3. **Practise.**—Conferences, recitations. In sections. 1. *I.*  
Assistant Professor THOMAS, Dr. SPRAGUE, Dr. HOBART, Dr. SULLIVAN
7. **Clinic.**—St. Luke's Hospital. 1. *I.* Assistant Professor THOMAS
8. **Clinic.**—University Hospital. 1. *I.* Dr. SPRAGUE
9. **Clinic.**—St. Mary's Hospital. 1. *I.* Dr. CRILE
- 15-16. **Clinic.**—Dispensary. In sections; three two-hour periods (*three weeks*). *II.*  
Assistant Professor THOMAS, Dr. SPRAGUE, Dr. HOBART, Dr. SULLIVAN

## DIVISION OF GENITO-URINARY SURGERY

CHARLES MORGAN MCKENNA, M.D., *Assistant Professor*HARRY CULVER, M.S., M.D., *Associate*HARRY JEROME SMEJKAL, M.D., *Instructor*HARTLEY FARNHAM MARS, Ph.C., M.D., *Instructor*JACOB WILLIAM HOLDERMAN, M.D., *Instructor*GERALD DELAND GERON, M.D., *Assistant*

## Required Courses—Third Year

3. **Practise.**—Conferences, recitations. In sections. 1. *I.*  
Assistant Professor MCKENNA, Assistant Professor CULVER, Dr. MARS, Dr. HOLDERMAN.
- 7-8. **Clinic.**—Dispensary. In sections. Three two-hour periods (*three weeks*). *II.*  
Assistant Professor MCKENNA, Dr. SMEJKAL, Dr. MARS

## Required Courses—Fourth Year

11. **Clinic.**—Cook County Hospital. Individual instruction in the diagnosis of genito-urinary diseases, including cystoscopy, catheterization of the ureters, interpretation of roentgenograms and of chemical and microscopical urinalyses. In sections; two two-hour periods (*three weeks*). Assistant Professor CULVER
14. **Clinic.**—St. Joseph's Hospital. In sections; one two-hour period. *II (four weeks)*. Assistant Professor MCKENNA

## DIVISION OF OPERATIVE SURGERY

BENJAMIN FRANKLIN LOUNSBURY, M.D., *Assistant Professor*ARCHIE JAMES GRAHAM, M.D., *Instructor*ARTHUR R METZ, M.D., *Assistant*ROGER CLIFTON CANTWELL, M.D., *Assistant*IRVING R BROWNING, M.D., *Assistant*BENJAMIN BRAUDE, M.S., M.D., *Assistant*RALPH AUGUST KORDENAT, B.S., *Student Assistant*

**Required Course—Second Year**

**3. Operative Surgery.**—Regional surgical anatomy. Individual operation on the cadaver and on animals. In small sections; two two-hour periods. *I.*

Assistant Professor LOUNSBURY, Dr. METZ, Dr. CANTWELL, Dr. BROWNING

**SUMMARY OF HOURS****First Year**

Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory	Didactic	Laboratory	
<b>ANATOMY:</b>					
Gross.....	32	112	32	112	288
Microscopic.....	32	160	32	64	288
<b>CHEMISTRY:</b>					
Organic.....	32	96	....	....	128
Physiological.....	....	....	32	96	128
<b>PHYSIOLOGY.....</b>	....	....	48	96	144
	<u>96</u>	<u>368</u>	<u>144</u>	<u>368</u>	<u>976</u>

**Second Year**

Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory	Didactic	Laboratory	
<b>Anatomy:</b>					
Topographical.....	32	96	....	....	128
Bacteriology.....	48	96	....	....	144
Clinical Pathology.....	....	....	....	64	64
Pharmacology.....	48	64	48	64	224
Prescription Writing and Pharmacy.....	....	....	....	....	....
Pathology.....	32	96	16	48	192
Physical Diagnosis.....	....	....	16	32	48
Physiology.....	32	96	....	....	128
Surgery (Operative).....	....	....	....	32	32
	<u>192</u>	<u>442</u>	<u>112</u>	<u>240</u>	<u>960</u>

**Third Year**

Subjects	First Semester			Second Semester			Total
	Didactic	Clinical and Lab-oratory	Dis-pensary	Didactic	Clinical and Lab-oratory	Dis-pensary	
Autopsies.....	....	....	....	....	32	....	32
Hygiene.....	....	....	....	32	24	....	56
Laryngology and Rhinology.....	16	16	9	....	....	9	50
Internal Medicine.....	64	40	18	64	40	18	244
Medical Jurisprudence.....	....	....	....	16	....	....	16
Pathology.....	....	....	....	....	64	....	64
Pediatrics.....	16	....	....	16	16	....	48
Pharmacology and Therapeutics.....	32	....	....	....	....	....	32
Obstetrics.....	32	....	....	32	20	....	84
Otology.....	....	....	....	6	4	....	10
General Surgery.....	32	32	18	32	36	18	168
Orthopedic Surgery.....	16	16	18	....	16	18	84
Genito-Urinary Surgery.....	16	....	18	....	....	18	52
	<u>224</u>	<u>104</u>	<u>81</u>	<u>198</u>	<u>252</u>	<u>81</u>	<u>940</u>

## Fourth Year

Subjects	First Semester			Second Semester			Total
	Didactic	Clinical and Lab- oratory	Dis- pensary	Didactic	Clinical and Lab- oratory	Dis- pensary	
Dermatology.....	32	16	9	....	....	9	66
Genito-Urinary Surgery.....	....	4	....	....	16	....	20
Gynecology.....	32	32	9	....	20	9	102
Medicine.....	96	50	....	48	66	....	260
Neurology.....	16	16	18	16	16	18	100
Obstetrics.....	48	30	....	....	34	....	112
Ophthalmology.....	12	16	18	....	....	18	64
Pediatrics.....	....	32	18	....	12	18	80
Psychiatry.....	....	....	....	16	8	....	24
Roentgenology.....	....	....	....	....	4	....	4
General Surgery.....	32	72	....	32	88	....	224
Surgical Pathology.....	....	....	....	....	16	....	16
	<hr/> 268	<hr/> 268	<hr/> 72	<hr/> 112	<hr/> 280	<hr/> 72	<hr/> 1072
First year.....							976
Second year.....							960
Third year.....							940
Fourth year.....							1072
Total.....							3948

# THE COLLEGE OF DENTISTRY

---

(For the *faculty* of the College of Dentistry, see page 38, for a description of the *building*, see page 60; for *fees*, see page 113; for *scholarships*, see page 105).

## LOCATION

The College of Dentistry of the University of Illinois is located in what is known as "the clinical center of Chicago." It is at Harrison and Honore streets, directly opposite the Cook County Hospital. Adjoining it on the north is the University of Illinois College of Medicine, and on the west the West Side Hospital. Within a radius of a few blocks are a majority of the great metropolitan hospitals and professional colleges and schools. It is about a fifteen minutes' ride from the Union Loop, or down-town district, by either the Garfield Park branch of the Metropolitan elevated line, or the Harrison Street surface cars.

## INFIRMARY

A large part of the senior course is devoted to practical dentistry, and for this purpose an Infirmary is provided, which occupies the entire top floor of the main building. There are always more applicants for dental service than can be accommodated. The Infirmary is supplied with modern accessories, and there are windows on three sides, as well as skylights overhead, so that all work may be done by daylight. Adjoining the Infirmary are the superintendent's office, examination room and the therapeutic laboratory. All sterilization and preparation for therapeutic and root canal work is supervised by a registered nurse.

## LIBRARY

The general library of the University of Illinois in Chicago is in the Medical building, which adjoins the College of Dentistry. In this library there are over 21,700 volumes, including a comprehensive collection of works on dental and allied subjects. All of the standard dental journals are kept on file, and there is a representative collection of works in literature, standard and modern, for the exclusive use of English classes in the College of Dentistry. The library, in charge of a librarian and assistant, is open from 9 a. m. to 5 p. m., and room is provided for students desirous of employing their study periods in the library.

## METHODS OF ADMISSION

Entrance credit will be accepted by *certificate* from the following sources:

- (1) From high schools and academies in the State of Illinois which are accredited to the University of Illinois.
- (2) From schools accredited by the North Central Association of Colleges and Secondary Schools.
- (3) From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.
- (4) From high schools and academies registered by the Regents of the University of the State of New York.
- (5) From schools approved by the New England College Entrance Certificate Board.
- (6) From schools accredited by the Southern Association of Colleges and Secondary Schools.

(7) From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

Entrance credits may be made by *examination*:

(1) In the examinations conducted by the Registrar of the University at the University in Urbana in January, July, and September of each year.

(2) In the examinations conducted by the Registrar of the University at the College of Dentistry in September of each year.

(3) In the examinations conducted by the Registrar of the University about March 15, June 15, August 25, September 25, and December 15 in each year in the Cook County Courthouse, Chicago.

(4) In the examinations conducted in June of each year by the College Entrance Examination Board.

(5) In the examinations conducted by the Regents of the University of the State of New York.

### **CURRICULUM**

The curriculum is four years in length. Registration for the present year closed October 2, 1920. The degree of Doctor of Dental Surgery (D. D. S.) is conferred on the successful completion of the curriculum.

### **ADMISSION TO ADVANCED STANDING**

Students who can comply with the requirements for admission to the University of Illinois, and who have studied dentistry in any college accredited to the University of Illinois for not less than one year, may be admitted to advanced standing. Such students, however, will be required to comply with all the conditions of the curriculum of the College of Dentistry.

Graduates of colleges of medicine accredited to the University of Illinois may be admitted to the College of Dentistry and given credit for one year in time and for all satisfactorily completed courses which are required by the College of Dentistry.

Students holding credits other than those listed above should communicate with the Dean for further information.

### **LENGTH OF CURRICULUM**

The regular session of 1920-21 began on September 27, 1920, at 8:00 a. m., and will end June 3, 1921. The curriculum covers four years of college work.

Students may be admitted to the regular curriculum only during the first ten days of the first semester. Students who desire to pursue special studies may be received at any time.

### **REQUIREMENTS FOR GRADUATION**

The degree of Doctor of Dental Surgery will be conferred on students who have completed the curriculum, attended the required time, and passed satisfactorily the final examinations. To be eligible to the degree, the student must be twenty-one years of age, must possess a good moral character, and must have paid all fees.

The monthly report of attendance, and the standing of students in recitations, laboratory work, and infirmary practise, both operative and prosthetic, are considered in making up the rating of final examinations.

### **GRADUATION WITH THESIS**

Students may become candidates for thesis honors through meritorious work. "Graduation with Thesis" is awarded on the presentation of a satisfactory scientific essay.

**HONORARY RESEARCH ASSISTANTS**

Students may, during the last year of their course, be permitted to pursue advanced work in a department, provided, first, that they have shown special aptitude along this line; and, second, that their previous work has been of a sufficiently high grade. If at the end of the last year's work the student's application and attainment are regarded as of a sufficiently high character, an honorary research assistantship may be awarded.

**LICENSE TO PRACTISE IN ENGLAND**

On the recommendation of the Board of Examiners in Dental Surgery, the Council of the Royal College of Surgeons, in London, has added the College of Dentistry of the University of Illinois to the list of dental schools recognized by the College. This recognition implies that the Royal College of Surgeons will exempt graduates in dental surgery of the University of Illinois from the Preliminary Science Examination for the License in Dental Surgery, and will accept such parts of the curriculum for the License as are completed in the College of Dentistry of the University of Illinois toward the curriculum of studies required for a license.



## GENERAL DESCRIPTION OF COURSES<sup>1</sup>

### RHETORIC

FRANK HURBURN O'HARA, Ph.B., *Assistant Professor*

#### Required Course—First Year

1-2. **Rhetoric and Themes.**—Short themes; preparation of papers on scientific subjects; public speaking; debate; general reading; principles of ethics. 3, *I, II.*

Assistant Professor O'HARA

**Advanced Courses.**—Work in composition and rhetoric conducted by individual consultations and occasional meetings with advanced classes, the written work in other departments forming the chief basis of discussion.

Assistant Professor O'HARA

### TECHNICAL DRAWING

#### Required Course—First Year

L F A HEIN, D.D.S., *Instructor*

CHARLES E KERRICK, *Instructor*

CTIMIR BRAZDA, *Student Assistant*

TRYGVE J BERKHAUG, *Student Assistant*

1. **Technical Drawing.**—Theoretical and practical graphics, the reading and making of working plans. Projections, sketching, lettering, conventions, renderings, and translations. 2 two-and-a-half-hour periods. *I.*

Dr. HEIN and Mr. KERRICK

### ANATOMY, HISTOLOGY, EMBRYOLOGY, ZOOLOGY

ALBERT CHAUNCEY EYCLESHYMER, Ph.D., M.D., *Professor and Head of the Department*

FREDERICK BOGUE NOYES, D.D.S., *Professor*

NEWTON GEORGE THOMAS, D.D.S., *Professor*

ROY LEE MOODIE, Ph.D., *Associate Professor*

OTTO FREDERIC KAMPMEIER, Ph.D., *Associate Professor*

ARTHUR REUBEN COOPER, Ph.D., *Assistant Professor*

JOSEPH CLARK STEPHENSON, Ph.D., *Associate*

OSCAR EUGENE NADEAU, M.D., *Instructor*

LOUIS N BOELIO, *Assistant*

FRANCES SCHWAB, *Technician*

HENRY REHM, *Student Assistant*

EUGENE SZWAJHART, *Student Assistant*

The laboratories for gross anatomy comprise two dissecting rooms and a number of smaller rooms for embalming, storing, and prosecting. A plastic studio is available for anatomical reconstruction work and the use of models for teaching purposes. The laboratories for histology and embryology, together with the offices and research laboratories, are located in the Medical Building.

<sup>1</sup>The course numbers are indicated by Arabic numerals preceding the captions. Unless otherwise specifically stated, the Arabic numerals following the description of courses indicate the number of one-hour periods a week in each subject. The first and second semesters are indicated by the Roman numerals *I* and *II*, respectively.

**Required Courses—First Year**

**3. General Zoology.**—Animal biology, principles of structure, function, interrelations; origin and development of animal life; generalization in zoological theory. Lectures and quizzes. 2. *I.* Dr. COOPER

**4. Vertebrate Zoology and Comparative Anatomy.**—Classification of the chordata; anatomy of systems of organs considered in respect to their function, ontogeny, and evolution in the vertebrate series; anatomical studies (dissection) of types of the chordata, with special emphasis on mammalian splanchnology. Lectures, 2, *II* laboratory, 2 two-hour periods, *I, II.* Dr. COOPER and assistants

**7. Microscopy.**—The use of the microscope will be thoroly demonstrated and the examination of familiar objects as well as certain protozoa be made. Laboratory, 1 two-hour period for 8 weeks, *II.* Professor THOMAS and assistants

**Required Courses—Second Year**

**8. General Histology.**—Cell structure and function; the relation of cells and intercellular substances and tissues; the elementary tissues; the histology of the organs of the circulatory systems; the alimentary tract and the glands connected with it; the urinary system, the respiratory system, and the skin, nails, and hair. Lecture and quiz, 2; laboratory, 2 two-and-a-half-hour periods. *I.* Professor THOMAS and assistants

**10-11. Systematic Anatomy.**—This includes a complete dissection of the body. Lectures, demonstrations, recitations, and seminar, 3; laboratory, 2 three-hour periods. *I, II.* Dr. NADEAU and assistants

**15. Dental Histology and Embryology.**—The tissues of the teeth, the supporting tissues, and tissues of the oral cavity, considered from the dental standpoint. The enamel, with special references to the operative procedures and the preparation of cavity walls. The embryology of the teeth, mouth, and jaws. Lecture or quiz, 1; laboratory, 2 two-and-a-half-hour periods. *II.* Professor NOYES, Professor THOMAS

**Required Course—Third Year**

**17. Topographical Anatomy and Neurology of the Head and Neck.**—Review of anatomical structures, functional significance, regional relationships of surgical and clinical importance and structural variations. Lectures and recitations, 1; laboratory 1 three-hour period. *II.* Dr. NADEAU and assistants

**CHEMISTRY AND METALLURGY**

WILLIAM HENRY WELKER, A.C., Ph.D., *Professor and Head of the Department*

PAUL GERHARD ALBRECHT, Ph.D., *Associate*

GROVER TRACY, A.B., *Instructor*

JESSE LOUIS BOLLMAN, M.S., *Assistant*

CLARENCE C SAELOHOF, M.S., *Assistant*

MAXIMO M DEOCAMPO,<sup>1</sup> Ph.C., *Technician*

The instruction in chemistry is given in the laboratories in the Medical Building.

**Required Courses—First Year**

**3. General Inorganic Chemistry.**—Metals and non-metals. Lectures and recitations, 3; laboratory, 2 three-hour periods. *I.*

Professor WELKER, Mr. BOLLMAN, and assistants.

<sup>1</sup>Resigned January 21, 1921.

**6. Qualitative Analysis.**—The important metals and acids. Lecture or recitation, 1; laboratory, 2 two-and-a-half-hour periods. *II.* Mr. BOLLMAN and assistants

#### Required Courses—Second Year

**9. Organic Chemistry.**—The fundamentals, from a biological standpoint; fats, proteins, and carbohydrates. Lectures, demonstrations, and conferences, 2; laboratory, 2 three-hour periods. *I.* Mr. TRACY and assistants

**12. Physiological Chemistry.**—The fundamentals of physiological chemistry. Lectures, demonstrations, and conferences, 2; laboratory, 2 two-and-a-half-hour periods. *II.* Mr. TRACY and assistants

*Prerequisite:* Course 9 or its equivalent.

#### Required Course—Third Year

**15. Metallurgy.**—The general principles of metallurgy. Extractions and refining of the various metals used in dentistry. The physical properties of metals. Analysis of ores, alloys, solders, and cements; refining of gold, silver, and tin. Preparation of alloys and solders. Lecture or recitation, 2; laboratory, 1 four-hour period. *I.*

Professor WELKER and assistants

#### Optional Course

**51. Metallurgy.**—An advanced course, open to students who have completed satisfactory courses in inorganic chemistry, qualitative analysis, and metallurgy. Hours to be arranged. Professor WELKER

**Research.**—The laboratories are open to persons with the requisite scientific training for the conduct of original investigation under the direction of a member of the staff.

#### Required Courses—First Year

**3. General Inorganic Chemistry.**—Metals and non-metals. Lectures and recitations, 3; laboratory, 2 three-hour periods. *I.* Professor WELKER and assistants

**6. Qualitative Analysis.**—The important metals and acids. Lecture or recitation, 1; laboratory, 2 two-and-a-half-hour periods. *II.* Mr. BOLLMAN and assistants

#### Required Courses—Second Year

**9. Organic Chemistry.**—The fundamentals, from a biological standpoint; fats, proteins, and carbohydrates. Lectures, demonstrations, and conferences, 2; laboratory, 2 three-hour periods. *I.* Mr. TRACY and assistants

**12. Physiological Chemistry.**—The fundamentals of physiological chemistry. Lectures, demonstrations, and conferences, 2; laboratory, 2 two-and-a-half-hour periods. *II.* Dr. ALBRECHT and assistants

*Prerequisite:* Course 9 or its equivalent.

#### Required Course—Third Year

**15. Metallurgy.**—The general principles of metallurgy. Extraction and refining of the various metals used in dentistry. The physical properties of metals. Analysis of ores, alloys, solders, and cements; refining of gold, silver, and tin. Preparation of alloys and solders. Lecture or recitation, 2; laboratory, 1 four-hour period. *I.*

Professor WELKER and assistants

**Optional Course**

**51. Metallurgy.**—An advanced course, open to students who have completed satisfactory courses in inorganic chemistry, qualitative analysis, and metallurgy. Hours to be arranged. Professor WELKER

**Research.**—The laboratories are open to persons with the requisite scientific training for the conduct of original investigation under the direction of a member of the staff.

**PATHOLOGY AND BACTERIOLOGY**

JOHN DAVIS, M.D., Ph.D., *Professor and Head of Department*

JOSIAH JOHN MOORE, M.D., M.S., *Assistant Professor*

WILLIAM PETERSON, B.S., *Associate*

ISADOR PILOT, M.S., M.D., *Instructor*

HORRY MATTHEW JONES, Ph.D., *Instructor*

The laboratories of pathology occupy rooms in the Medical Building. In the main laboratory are several hundred specimens which are used for teaching purposes and demonstration.

The laboratories of bacteriology are located in the Medical Building.

Opportunity is offered to those desiring more advanced work in pathology and bacteriology and to those interested in research.

**Required Course—Second Year**

**4. General Bacteriology.**—Sterilization; disinfection; preparation of culture media; general morphologic and cultural characteristics of bacteria; isolation, cultivation and identification of pathogens; relation of bacteria to disease; immunity; vaccines; application of principles of bacteriology to problems of hygiene. Animal experiments are used where appropriate. This course covers the general principles of bacteriology and immunology as well as those phases of the subject that are of special value to dental students. Lectures, recitations and demonstrations, 3; laboratory work, 2 two-and-a-half-hour periods. *II.* Dr. PILOT and assistants

**Required Course—Third Year**

**7. General Pathology.**—Principles of general pathology. Circulatory disturbances, retrogressive and progressive changes, inflammation, tumors, and the special pathology of the important organs of the body. Emphasis is placed upon the study of gross specimens, both fresh and preserved. Attendance upon autopsies is required in the second half of the semester. Lectures, recitations, and demonstrations, 4; laboratory, 2 two-and-a-half-hour periods. *I.* Dr. MOORE and assistants

**Optional Course**

**55. Advanced Laboratory and Research Work.**—Open to a limited number of qualified students. Hours to be arranged. Dr. MOORE

**PHYSIOLOGY**

GEORGE PETER DREYER, Ph.D., *Professor and Head of the Department*

JAMES TOBIAS GROOT, B.S., *Instructor*

HUBBARD PRATHER SAUNDERS, M.D., *Assistant*

CARL T STEPHAN, M.D., *Assistant*

C D LAMBIRD, B.S., *Student Assistant*

The work in this department has been adapted to the requirements of higher dental education as regards length of course, emphasis on particular topics, and correlation to other fundamentals. While the dental classes meet independently of the medical classes, the same department ministers to both groups of students with the resulting advantage of increased facilities in the way of laboratory equipment and teaching staff.

### Required Course—Third Year

**3-4. Human Physiology.**—Lectures, recitations, and demonstrations. 4. *I, II.* Laboratory work and demonstrations. 1 three-hour period. *I, II.* Dr. OLMSTED

### OPERATIVE DENTISTRY

DONALD MACKAY GALLIE, D.D.S., *Professor and Head of the Department*

W IRA WILLIAMS, D.D.S., *Assistant Professor*

VICTOR T NYLANDER, D.D.S., *Assistant Professor*

JULES LE GRAND, D.D.S., *Instructor*

EDWARD J KREJCI, *Instructor*

FRANCIS L GORMAN, *Instructor*

EMMONS SYLVESTER COE, B.S., *Student Assistant*

HENRY BRINKMAN, *Student Assistant*

### Required Course—First Year

**3. Operative Dentistry; Dental Anatomy and Nomenclature.**—Tooth forms and surfaces; carving of tooth forms in plaster. Lecture or recitation, 2; laboratory, 2 three-hour periods. *I.* Assistant Professor WILLIAMS

### Required Course—Second Year

**11-12. Operative Dentistry.**—Carving of tooth forms in bone and ivory; instrument making and use; cavity preparation in ivory forms. Lecture, 1; laboratory, 2 two-and-a-half-hour periods. *I, II.* Assistant Professor WILLIAMS

### Required Courses—Third Year

**15-16. Operative Dentistry.**—Cavity nomenclature and preparation; filling materials; inlay technic, both gold and porcelain; correct chair positions; the application of the rubber dam; the use of clamps, wedges, and separator. Lecture, 1, *I*; laboratory, 2 two-and-a-half-hour periods. *I, II.* Professor GALLIE, Assistant Professor WILLIAMS

**18. Infirmary Practise.**—368 hours; seven hours per week, *I.* Sixteen hours per week, *II.* Minimum requirements, 475 credits.<sup>1</sup> Prerequisite courses, 3, 11-12 operative; 2, 5-6, 9-10 prosthetic; 3-4, 8 materia medica and therapeutics.

### Required Courses—Fourth Year

**21-22. Operative Dentistry.**—Review of technical procedures, principles, and practise. Management of patients, special cases, children's teeth. Erosion, atrophy and abrasion. Office equipment and management. Lecture or recitation. 1. *I, II.* Professor GALLIE

**24-26. Infirmary Practise.**—960 hours; 30 hours per week, *I, II.* Minimum requirement 1,200 credits.<sup>1</sup> Prerequisite courses 3, 11-12, 13, 15, 16 operative dentistry; 2, 5, 6, 9, 10, 17-18, 19 prosthetic dentistry; 3, 4, 8, 11-12 materia medica and therapeutics.

Professors GALLIE, DITTMAR, COOLIDGE and NOYES. Drs. WILLIAMS, UPP, KUBACKI, BLAYNEY, WILDER, SIPPY, LEGRAND, TYLMAN, SHOLES, NYLANDER, ORT, KREJCI, LADUE.

<sup>1</sup>Clinical credits per unit of work vary according to quality.

**PROSTHETIC DENTISTRY**

GEORGE WALTER DITTMAR, D.D.S., *Professor and Head of the Department*

SOLOMON PERRY STARR, D.D.S., *Associate Professor*

ROSCOE WINTERS UPP, D.D.S., *Assistant Professor*

WACLAU HOWARD KUBACKI, D.D.S., *Associate*

STANLEY TYLMAN, A.B., D.D.S., *Instructor*

JAMES B LA DUE, D.D.S., *Instructor*

CHARLES SCHOLES, D.D.S., *Instructor*

ROBERT K ORT, D.D.S., *Instructor*

MILZOR WILLIAM DEIST, D.D.S., *Assistant*

LUTHER L BLAINE, D.D.S., *Assistant*

**Required Course—First Year**

**2. Prosthetic Dentistry.**—Terminology; impression materials and impressions; vulcanite and vulcanization; construction of partial and full vulcanite dentures; soldering; band and wire clasp construction. Lecture or quiz, 1; laboratory, 2 four-hour periods. *II.*

Dr. UPP

**Required Course—Second Year**

**5-6. Prosthetic Dentistry.**—Swaged and cast dentures; tenso-friction appliances; crown and bridge construction. Lecture and quiz, 1; laboratory 2 three-and-a-half-hour periods. *I, II.*

Dr. KUBACKI

**Required Course—Third Year**

**9-10. Prosthetic Dentistry.**—The human dental mechanism; philosophy of mastication; Gysi and Hall theories of occlusion and articulation; advanced plate, crown, and bridge construction; porcelain technic; splints and obturators. Lecture and quiz, 1; laboratory, 2 three-hour periods. *I, II.*

Professor DITTMAR, Associate Professor STARR, Dr. UPP, Dr. KUBACKI

**14. Infirmary Clinic: Practical Prosthetic Dentistry.**—368 hours, nine hours per week, *I.* Sixteen hours a week, *II.* Prerequisite courses same as for Operative 18.

Professor DITTMAR and assistants

**Required Courses—Fourth Year**

**17-18. Prosthetic Dentistry.**—A review of the fundamentals and their practical application. Lectures, 1. *I, II.*

Professor DITTMAR and assistants

**19. Prosthetic Technic.**—Full upper and lower denture articulated and ground to occlusion, 1. *I or II.*

Professor DITTMAR and assistants

**21-22. Infirmary Clinic: Practical Prosthetic Dentistry.**—960 hours, 30 hours a week, *I, II.* Prerequisite courses same as for Operative 24-26.

Professor DITTMAR and assistants

**MATERIA MEDICA AND THERAPEUTICS**

EDGAR DAVID COOLIDGE, D.D.S., *Professor and Head of the Department*

JAMES ROY BLAYNEY, D.D.S., *Assistant Professor*

ROBERT EDWIN WILDER, D.D.S., *Instructor*

**Required Courses—Third Year**

**3-4. Pharmacology and Therapeutics.**—Prescription writing, drugs and their therapeutic classifications; actions of drugs with special emphasis on anesthetics and stimulants. Lectures, 1. *I, II.*  
Professor COOLIDGE, Dr. BLAYNEY

**8. Pharmacology and Therapeutics.**—Laboratory course. 1 two-hour period, *II.*  
Professor COOLIDGE, Dr. BLAYNEY

**Required Course—Fourth Year**

**11-12. Therapeutics.**—Pathological conditions of the peridental membrane and dental pulp. Prophylaxis. A thesis on oral hygiene required. Lectures and recitations, 2. *I, II.*  
Professor COOLIDGE, Dr. BLAYNEY

**15-16. Infirmary Clinic.**—Practical examinations and diagnoses. Systematic records of history, diagnoses, and treatments. 1,056 hours,<sup>1</sup> 33 hours a week. *I, II.*  
Professor COOLIDGE, Dr. BLAYNEY, Dr. WILDER

**ORAL SURGERY AND ORAL PATHOLOGY**

FREDERICK BROWN MOOREHEAD, M.S., D.D.S., M.D., *Professor and Head of the Department*

LOUIS SCHULTZ, D.D.S., M.D., *Professor*

FRANK JOSEPH BERNARD, D.D.S., *Assistant Professor (in Extracting)*

JAMES EVERETT FONDA, D.D.S., *Assistant*

CARROLL W STUART, D.D.S., *Assistant (in Extracting)*

EUGENE G A HEIN, D.D.S., *Assistant (in Extracting)*

KAETHE WELLER DEWEY, *Associate and Research Pathologist*

NELLIE M FRAIN, *Artist*

MARY JUNGJOHANN, *Technician*

ESTHER M HANNAN, R.N., *Instructor in Oral Surgery and Supervising Nurse*

The courses in oral surgery are designed to prepare the student to interpret the lesions which fall within the limits of the practise of oral surgery. While major operations are performed in the clinic, special emphasis is laid upon the diagnosis and treatment of lesions which properly come within the limits of the general practise of dentistry.

**Required Courses—Third Year**

**1-2. Principles of Surgery.**—Lecture and conference course. Lecture or conference, 1. *I.*  
Professor MOOREHEAD or Professor SCHULTZ

**5-6. Oral and Dental Pathology.**—Pathological changes in oral cavity and their relation to general disease processes; study of neoplasms of mouth and jaws; special pathology of dental pulp, peridental membrane, and alveolar process. Lectures, recitations, demonstrations, 1; laboratory work, 1 three-hour period, *II.*  
Professor MOOREHEAD, Professor SCHULTZ, Dr. DEWEY, and assistants

**Required Courses—Fourth Year**

**11-12. Oral Surgery.**—General and special surgery, including etiology, diagnosis, treatment of surgical lesions, local and general anesthetics. Lectures, 2. *I, II.*  
Professor MOOREHEAD or Professor SCHULTZ

<sup>1</sup>Clinical credits per unit of work vary according to quality.

**15-16. Oral Surgery Clinic.**—General case discussions and diagnosis, students participating by assignment. Demonstrations of surgical technic, local and general anesthetics. 1 three-hour period. *I, II.* Professor MOOREHEAD, Professor SCHULTZ, and assistants

**19-20. Extracting Clinic.**—The selection and application of forceps and elevators; demonstration of the use of nitrous oxid and oxygen; demonstration of novocain, illustrating conduction and infiltration methods; asepsis; after-treatment of cases. 960 hours to small groups, 6 three-hour periods. *I, II (one and a half weeks).*

Dr. BERNARD and assistants

## ORTHODONTIA

FREDERICK BOGUE NOYES, A.B., D.D.S., *Professor and Head of the Department*

BURNE OLIN SIPPY, A.B., D.D.S., *Associate*

### Required Courses—Fourth Year

**3-4. Orthodontia.**—Fundamental principles; normal occlusion and its relation to the harmonious development of the features; classification, etiology, and treatment of mal-occlusions. Lecture 1. *I, II.* Professor NOYES

**7-8. Practical Orthodontia.**—Demonstration and technic. 2. *I, II.* Dr. SIPPY

## ROENTGENOLOGY

ANNA REGINALDA BOLAN, R.N., *Instructor*

### Required Course—Third Year, II. Sem. and Fourth Year

**3. Roentgenology.**—History and theory; practical application; roentgenograms, technic and interpretation. Lectures, 1. *I.* Laboratory to small groups, 8 two-hour periods. *I or II.* Assistant Professor McGUIRE and assistants

## DENTAL JURISPRUDENCE

ELMER DEWITT BROTHERS, B.S., L.L.B., *Lecturer*

### Required Course—Fourth Year

**3. Dental Jurisprudence.**—The principles of law governing individual and professional rights and obligations; responsibilities arising from the relation of dentist and patient; confidential character and inviolability of such relation; dental laws of the various states. Lectures, 1. *I.* ELMER D. BROTHERS

## BUSINESS PRACTISE

### Required Course—Fourth Year

HAROLD SELFRIDGE STANDISH, *Lecturer*

**4. Business Practise.**—Lectures and conferences. 1. *II.* Mr. STANDISH

## COURSES FOR PRACTITIONERS

Courses will be arranged for an individual or groups of individuals. Application for such courses should be made to the Dean.



## SUMMARY OF THE CURRICULUM

## First Year

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
Zoology.....	32	32	64	64	192
Chemistry (General Inorganic).....	48	....	96	....	144
Chemistry (Qualitative Analysis).....	....	16	....	80	96
Rhetoric.....	48	48	....	....	96
Operative Dentistry (Dental Anatomy).....	32	....	96	....	128
Prosthetic Dentistry.....	....	16	....	128	144
Microscopy.....	....	....	....	16	16
Technical Drawing.....	....	....	80	....	80
	160	112	336	288	896

## Second Year

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
Anatomy.....	32	32	96	96	256
Bacteriology.....	....	48	....	80	128
Chemistry (Organic).....	32	....	96	....	128
Chemistry (Physiological).....	....	32	....	80	112
General Histology.....	32	....	80	....	112
Dental Histology and Embryology.....	....	16	....	80	96
Operative Dentistry.....	16	16	80	80	192
Prosthetic Dentistry.....	16	16	112	112	256
	144	144	544	448	1280

## Third Year

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
General Pathology.....	64	....	80	....	144
Metallurgy.....	32	....	64	....	96
Materia Medica and Therapeutics.....	16	16	....	32	64
Operative Dentistry.....	16	....	80	80	176
Prosthetic Dentistry.....	16	16	96	96	224
Anatomy.....	....	16	....	48	64
General Clinics (Infirmary Practise).....	....	....	112	256	368
Physiology.....	64	64	48	48	224
Principles of Surgery.....	16	....	....	....	16
Dental Pathology.....	....	16	....	48	64
	240	112	528	560	1440

## Fourth Year

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
General Clinics (Infirmary Practise).....	....	....	480	480	960
Operative Dentistry.....	16	16	....	....	32
Orthodontia.....	16	16	32	32	96
Prosthetic Dentistry.....	16	16	16	....	48
Roentgenology.....	16	....	16	....	32
Therapeutics.....	32	32	....	....	64
Oral Surgery.....	32	32	48	48	160
Jurisprudence.....	16	....	....	....	16
Business Practise.....	....	16	....	....	16
	144	128	592	560	1424

# THE SCHOOL OF PHARMACY

---

For the *faculty* of the School of Pharmacy, see page 40, for a description of the *building*, see page 60; for *scholarships*, see page 105.

## HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. The first class, of two students, was graduated in 1861. The war caused a suspension of teaching, and the school was not reopened until 1870. The fire of 1871 destroyed the equipment, but in 1872 instruction was resumed for the second time and has since continued without interruption.

The College was formally united with the University May 1, 1896, becoming the technical School of Pharmacy of the University of Illinois.

## LOCATION

The School of Pharmacy buildings are located at the corner of Wood and Flournoy streets in Chicago.

This location is in the great medical center of Chicago and close to the colleges of Medicine and Dentistry of the University.

## EQUIPMENT

The total capacity of the laboratories is sufficient for 266 students, working at one time.

The laboratories are supplied with compound microscopes, analytical balances, and special apparatus, and with collections of crude drugs, medicinal plants, chemicals, and pharmaceutical products.

The library contains nearly four thousand volumes, including, in addition to the usual works of reference, many rare books and complete files of the leading pharmaceutical journals.

## CURRICULUMS

### For the Degree of Graduate of Pharmacy

In the curriculum leading to the degree of Graduate in Pharmacy the instruction is so arranged as to require the attendance of each student from three to five days each week and from twenty-one to twenty-nine hours weekly during two annual sessions of thirty-six weeks each. This arrangement is advantageous to drug clerks who desire to spend a part of their time in drug stores while attending school, thereby adding to their practical experience and at the same time earning a part or all of their living expenses.

The subjects taught are chemistry, general, pharmaceutical, and analytical; pharmacy, theoretical, manufacturing, and dispensing; botany; physiology; and materia medica.

### For the Degree of Pharmaceutical Chemist

To meet the demand for special training on the part of students who desire to pursue more extended courses in pharmaceutical chemistry, applied microscopy, and bacteriology, or

to prepare themselves for positions in food and drug laboratories, the School offers a three-year curriculum leading to the degree of Pharmaceutical Chemist. This curriculum comprises three annual sessions of thirty-six weeks each, the first two years being identical with the curriculum for the degree of Graduate in Pharmacy. The third year includes thirty-five hours a week for thirty-six weeks and consists largely of laboratory practise.

This curriculum includes, in addition to the subjects mentioned above, organic analysis and proximate assays, new remedies, analysis of urine, food and sanitary analysis, bacteriology, and applied microscopy.

The system of teaching includes lectures, illustrations, demonstrations, recitations, written and oral examinations, and individual practise and personal instruction in the various laboratories, much time being devoted to this important part of the student's work.

### ADMISSION

For the requirements for matriculation in the School of Pharmacy, see page 79.

Admission as special students, not candidates for a degree, is restricted to registered apprentices, assistants, or pharmacists, not less than twenty-one years of age.

Students who have pursued courses of study in other schools of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this School.

The candidate for the degree of Graduate in Pharmacy must be twenty-one years of age, and must have attended two annual courses of instruction, the first of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age will receive a certificate and will be awarded the diploma when this requirement is satisfied.

The candidate for the degree of Pharmaceutical Chemist must have successfully completed the course leading to the degree of Graduate in Pharmacy in this school or in some other recognized college or school of pharmacy whose requirements for admission and graduation are equivalent to ours. He must have satisfactorily completed the work of the third year at this school.

Persons competent to fill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

### STATE REGISTRATION

The pharmacy law of Illinois requires all candidates for the certificate of registered pharmacist to pass an examination given by the State Department of Registration and Education. Credit is given as a part of the "practical experience in compounding drugs" required by the law, for the actual time of attendance at a recognized school of pharmacy, but not to exceed twenty-four months for registered pharmacist nor twelve months for registered assistant pharmacist.

An amendment to the pharmacy law, in effect July 1, 1917, requires graduation from a recognized school of pharmacy, of candidates for the certificate of registered pharmacist, with the exception of those drug clerks who were entered on the rolls of the Board of Pharmacy as apprentices or assistants prior to the date when the law went into effect. The diploma of this school also admits to the pharmacy examinations in other states where the graduation requirement is in force.

The School holds membership in the American Conference of Pharmaceutical Faculties.

**FEES AND EXPENSES**

For a statement of the fees, see page 114. Fees are payable in advance. Students unable to meet this requirement must make satisfactory arrangements with the Dean at the beginning of the course.

**BOARD AND LODGING.**— Good board and lodging, within a convenient distance of the School, can be had for from ten to fifteen dollars a week.

**SELECTION OF SEATS.**— Seats in the lecture halls and desks in the laboratories will be assigned to students in the order of enrolment. To enroll, junior students will fill out the matriculation blank and forward it to the Dean together with credentials for admission and the matriculation fee of ten dollars; senior students will pay the registration fee of five dollars. It is of advantage to students to matriculate early.

**OPPORTUNITIES FOR EMPLOYMENT.**— A register of students desiring employment and of pharmacists wishing to employ students is kept at the School. Students desiring employment are invited to correspond with the Dean.

**FURTHER INFORMATION**

Further information may be found in the special announcement of this School, which may be obtained from the DEAN, SCHOOL OF PHARMACY, 701 South Wood Street, Chicago, Illinois.

**PART III**  
**DESCRIPTION OF COURSES**



# DESCRIPTION OF COURSES

## EXPLANATION

The arrangement of subjects in the following Description of Courses is alphabetical. The connections of allied departments are indicated by cross references.

Following the description of each course of instruction will be found the requirements, if any, for admission to that particular course. The sequence indicated by these prerequisites must be followed. For instance, under Art and Design 7a, Still-life in Oil Colors, the prerequisites given are Art and Design 1 and 2. These two courses must be completed before Course 7a may be taken.

If a course not required for graduation is selected by fewer than five students it may be withdrawn for the semester.

Graduate courses are numbered upwards from 100.

Credit is reckoned, *for undergraduate students*, in *semester hours*, or simply *hours*. An *hour* is one class period a week for one semester or the equivalent in laboratory, shop, or drawing room.

The semester, and the number of hours each semester for which the course counts, are shown after each course, thus: *I, II; (2)*. The Roman figures indicate semesters; the Arabic numerals in parentheses indicate hours of credit for *each semester* for undergraduates.

*Credit for first-year graduate students*, candidates for the master's degree, is counted in units. A unit course is one which requires ten hours of time a week through one semester, irrespective of the distribution of that time in class work, laboratory work, and private study; four such courses or their equivalent constitute a full minimum program for one semester. The unit values of graduate courses (numbered 100 and upwards) are indicated in the following pages. Courses of the intermediate groups "for graduates and advanced undergraduates," are in general (unless otherwise specified by the department concerned) evaluated as follows for graduate credit: (a) courses open only to students having at least senior standing, 1 unit for a 4-hour or 5-hour course,  $\frac{1}{2}$  unit for a 1-hour, 2-hour, or 3-hour course; (b) courses open to juniors,  $\frac{1}{2}$  unit for a 4-hour or 5-hour course;  $\frac{1}{4}$  unit for a 1-hour, 2-hour, or 3-hour course.

*For second-year and third-year graduate students*, candidates for the doctor's degree, no record of units is kept.

The omission of a course for the current year is indicated by enclosing the entire description of such a course in brackets.

Courses given in the summer session of 1920 are indicated by the initial letter S preceding the number and are grouped by departments after the courses given during the winter.

## ACCOUNTANCY

(See BUSINESS ORGANIZATION AND MANAGEMENT.)

## AGRICULTURAL COLLEGE EXTENSION

FRED HENRY RANKIN, B.S., *Superintendent and Assistant to the Dean*  
 ROBERT ENOCH HIERONYMUS, A.M., LL.D., *Community Adviser*  
 HARRIET MURIEL PHILLIPS, B.S., *Acting State Leader, Junior Extension*  
 WILLIAM H YOUNG, *Assistant*

[3. **Agricultural Extension Teachings.**—The service of extension enterprises to the people; farmers' institutes; agricultural extension schools; farmers' clubs and cooperative work in rural communities. *II*; (1). Not given in 1920-21. Professor RANKIN  
*Prerequisite:* One year of university work].

4. **Elementary Agricultural Extension.**—Introduction to agricultural college and university work; methods of study; scope and application of agricultural teaching and investigation. Lectures. Required of first-year students. *I*; (1).

(Credit given to agricultural freshmen only.) DEAN DAVENPORT and other lecturers.

NOTE.—For former courses offered under Agricultural College Extension, and other related courses, see Agricultural Education.

## AGRICULTURAL EDUCATION

ARETAS WILBUR NOLAN, M.S., *Associate Professor of Agricultural Education and Director of Smith-Hughes Teacher Training*  
 DWIGHT LOGAN REID, M.S., *Associate in Agricultural Education*  
 VICTOR W KELLEY, *Student Assistant in Practise Teaching*

50. **Teaching.**—Students enrolled in this course will become members of agricultural classes in Champaign, Urbana, and other high schools where vocational classes for teaching practise may be organized, and teach under the supervision of a staff teacher for one semester. Sections will be arranged for the supervision of home projects, class room teaching, and for conferences. *I, II*; (2-5). Mr. REID, Mr. KELLEY

*Prerequisite:* Education 10 and senior standing.

Required of vocational teachers.

51. **Teachers' Course in Agriculture.**—Principles and methods in teaching vocational agriculture; considerations of the problems of elementary and secondary school agriculture. *I or II*; (3). Associate Professor NOLAN

*Prerequisite:* Educ. 10 or 25.

Required of vocational teachers.

90. **Rural and Agricultural Education.**—For rural leaders. Rural life conditions, needs, standards, and agencies for improvement. The place and development of agricultural education in rural progress. *I*; (3). Associate Professor NOLAN

91. **Agricultural Education.**—For graduates and undergraduates. Major problems of agricultural education; administration, supervision and teaching in vocational agriculture; special research work to meet the needs of students' interests. *II*; (3-5).

Associate Professor NOLAN

*Prerequisite:* Agr. Ed. 50, 51 and senior standing.



## Summer Session Courses

**S1. General Agriculture.**—Current problems in the various fields of agriculture. Short unit topics in technical agriculture. Survey of agriculture literature with special reference to the circulars and bulletins of the College of Agriculture and Experiment Station which are available for use in the school. (2½). Mr. COLVIN

(Intended for those who are not specializing in agriculture).

**S2. Horticulture Projects.**—A farm fruit and vegetable garden. Use of school land for a demonstration garden. Organization of projects in horticulture. The course includes field exercises involving practise in horticultural processes. (2½). Mr. COLVIN

**S3. The Teaching of Agronomy.**—Organization of the subject matter in agronomy for use in vocational departments of the high school. Methods in teaching agronomy. (2½). Mr. REID

**S4. Farm Crop Projects.**—Field work in crop projects. Organization and outline of projects for use in the vocational departments. (2½). Mr. REID

**S5. The Teaching of Animal Husbandry.**—Methods of teaching animal husbandry. Organization of subject matter for teaching animal husbandry in vocational departments. (2½). Mr. GREENE

**S6. Animal Husbandry Projects.**—Laboratory work in projects in the field of animal husbandry. Outlines of projects for use in schools. (2½). Mr. GREENE

**S51. Special Methods in Agricultural Education.**—Principles and methods in teaching vocational agriculture. (2½). Assistant Professor NOLAN

*Equivalent:* Education 51 (in part).

**S90. Rural Education.**—Conditions, needs, and agencies in rural education. (2½). Assistant Professor NOLAN

## AGRONOMY

WILLIAM LEONIDAS BURLISON, Ph.D., *Professor of Crop Production, Head of Department*

JEREMIAH GEORGE MOSIER,<sup>1</sup> B.S., *Professor of Soil Physics*

ALBERT LEMUEL WHITING, Ph.D., *Professor of Soil Biology*

ERNEST E DeTURK, Ph.D., *Assistant Professor of Soil Technology*

RAYMOND STRATTON SMITH, Ph.D., *Assistant Professor of Soil Physics*

HOWARD JOHN SNIDER, B.S., *Assistant Professor of Soil Fertility*

CLYDE MELVIN WOODWORTH, Ph.D., *Assistant Professor of Plant Breeding*

THOMAS EVERETT RICHMOND, M.S., *Associate in Soil Biology*

GEORGE HARLAN DUNGAN, B.S., *Associate in Crop Production*

JOHN PIEPER, M.S., *Associate in Crop Production*

RAY IRIS SHAWL, M.S., *Associate in Farm Mechanics*

CARL A SCHOLL, B.S., *Associate in Farm Mechanics*

DAVID CLEVELAND WIMER, B.S., *Associate in Soil Physics*

OGLE HESSE SEARS, M.S., *Associate in Soil Fertility*

VICTOR ELWIN SPENCER, B.S., *Instructor in Soil Fertility*

GEORGE VANDERVEEN, B.S., *Instructor in Soil Fertility*

SIDNEY SYLVESTER CARNEY, B.S., *Assistant in Crop Production*

MARION BOYER HARLAND, B.S., *Assistant in Soil Physics*

JOHN WILLOUGHBY RANDOLPH,<sup>2</sup> B.S., *Assistant in Farm Mechanics*

<sup>1</sup>On leave.

<sup>2</sup>Resigned, December 10, 1920.

**[1. Drainage.**—Drainage and its surveying operations. Chaining, mapping, leveling, designing, setting grade stakes, laying tile. Lectures and drafting first half semester; field work second half semester. *II*; (3). Not given in 1920-1921.

*Prerequisite:* Agronomy 9, or its equivalent].

**2. Power Driven Machinery.**—Adaptability, construction, principles of operation, adjustment, troubles, purchase, and care of field and belt driven machines for soil, seed, and feed preparation, and for seeding, cultivating, harvesting, and handling farm crops. Lectures, recitations, laboratory practise. *I*; (3).

Mr. SHAWL

*Prerequisite:* Agronomy 26.

**3. Gas Engines and Tractors.**—Internal combustion engines and tractors, theory, ignition, operation, and economy-practise in adjustments, troubles, and testing. Lectures; quizzes; laboratory. *II*; (3).

Mr. SHAWL

*Prerequisite:* Agronomy 26.

**[4. Farm Buildings.**—Construction materials; construction, arrangement, design, and cost estimation of machine sheds, granaries, cribs, silos, poultry houses, swine houses, barns, and farm residences. Recitations and drafting. *I*; (3). Not given in 1920-1921.

*Prerequisite:* Agronomy 26].

**7. Advanced Farm Crops.**—Climatic and soil factors in relation to crop production; meadows and pastures; rotation; distribution of labor; cost of production; pure seed production; supply and consumption of products and by-products of farm crops; storage and marketing. Lectures; assigned reading; laboratory; demonstrations. *II*; (3).

Professor BURLISON

*Prerequisite:* Agronomy 25, Chemistry 13a, and either Botany 27 or an approved equivalent in science (consult instructor).

**8. Special Farm Crops.**—Special crops in which the student is interested. Reading; experiments by pot culture in the greenhouse or by plots in the field. Under special arrangement part of this work may be done during summer vacation. *II*; (2 to 5).<sup>1</sup>

Professor BURLISON

*Prerequisite:* Agronomy 7.

**9. Soil Physics and Management.**—Origin of soil material and formation and classification of soils; organic matter of soils; moisture, its movement and control; drainage and dry land agriculture; irrigation; temperature; aeration; tillage; soil erosion; rotation. Lectures; laboratory; quiz. *I* or *II*; (5).

Assistant Professor SMITH, Mr. WIMER, Mr. HARLAND

*Prerequisite:* Chemistry 2, and one unit of entrance or university physics.

**10. Special Work in Soil Physics.**—The problems, methods, and literature of soil physics are treated in lecture; laboratory work, if taken, is arranged to meet the needs of each student. *II*; Lectures (2), laboratory<sup>2</sup> (1-3).<sup>1</sup>

Assistant Professor SMITH, Mr. WIMER

*Prerequisite:* Agronomy 9 and approval of the Soil Physics Division.

**11. Soil Biology.**—Quantitative studies of the biochemical activities of soil micro-organisms with respect to fertility, factors influencing action on insoluble mineral plant food; fermentation of crop residues, green and farm manures, nitrogen fixation, assimilation, and preservation, and similar studies of the other essential elements. Lectures; quiz; laboratory. *II*; (5).

Professor WHITING, Mr. RICHMOND

*Prerequisite:* Agronomy 12 and Bacteriology 5, or 20, or the equivalent.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e.g., not 2-5, but 2, or 3, or 4, or 5.

<sup>2</sup>Laboratory and quiz sections will be filled in alphabetical order.

**12. Soil Fertility, Fertilizers, Rotation.**<sup>1</sup>—The influence of fertility on yield effect of different crops on the soil and on succeeding crops; different rotations, ultimate effect of different systems of farming on fertility and productivity; composition and value of manures and fertilizers, soils cropped continuously and different crops and with a series of crops; the fertility of soils of different types from different sections of Illinois. Lectures, laboratory.<sup>2</sup> *II*; (5). Assistant Professors DETURK, SNIDER, Mr. SEARS

*Prerequisite:* Chemistry 13a.

**12a. Soil Fertility, Fertilizers, Rotations.**<sup>1</sup>—The same as Agronomy 12 for advanced students. Lectures; quiz. *II*; (3). Assistant Professor DETURK

*Prerequisite:* Graduate standing, or advanced undergraduate standing with the approval of the division.

**13. Investigation of the Fertility of Special Soils.**—Soils in which the student is interested. Nature and quantity of the elements of fertility; effect of different fertilizers, as determined by pot cultures and by pot experiments; systematic study of similar work of experiment station and experimenters. *I*; (3). Mr. SEARS

*Prerequisite:* Agronomy 12.

**14. Seed Inspection and Grain Standardization.**—Designed for advanced students who intend to enter the grain or seed business. Advanced work in the inspection of samples of small seeds for purity and germination; sampling, judging, grading of seeds, grains and hays. Discussion of seed and grain laws and their application; transportation, marketing, centers of production. Lectures; laboratory. *II*; (2). Mr. DUNGAN, Mr. PIEPER

*Prerequisite:* Agronomy 7, or simultaneous registration therein.

**17. Harvesting Machinery.**—Expert work on binders, mowers, rakes, loaders, and stackers. For students preparing to become professional field experts on these machines. (Before registering in this course students are requested to consult instructor regarding requirements for successful experting.) *II*; (3). Mr. SHAWL

*Prerequisite:* Mechanical Engineering 71; Agronomy 2, and Agronomy 3, or registration therein.

**18a-18b. Thesis: Soil Fertility.**—*I, II*; (5-10)<sup>3</sup>. Assistant Professor DETURK

**18c-18d. Thesis: Soil Physics.**—*I, II*; (5-10)<sup>3</sup>. Assistant Professor SMITH

**18e-18f. Thesis: Soil Biology.**—*I, II*; (5-10)<sup>3</sup>. Professor WHITING

**18g-18h. Thesis: Plant Breeding.**—*I, II*; (5-10)<sup>3</sup>. Assistant Professor WOODWORTH

**18j-18k. Thesis: Field Crops.**—*I, II*; (5-10)<sup>3</sup>. Professor BURLISON

**18m-18n. Thesis: Farm Mechanics.**—*I, II* (5-10)<sup>3</sup>. Mr. SHAWL

*Prerequisite:* 90 hours credit before the senior year; 20 hours credit in subjects pertinent to the thesis problem and the approval of the head of the department.

**19a-19b.—Research Work in Agronomy.**—Consult instructor regarding time and requirements. Soil Fertility *I, II*; (5-10): Assistant Professor DETURK

**19c-19d. Research Work in Agronomy.**—Soil physics. *I, II*; (5-10)<sup>3</sup> Assistant Professor SMITH

<sup>1</sup>A required inspection trip to certain soil experiment fields or farms will be arranged in May or early June, in connection with courses 12 and 12a which will require an expense of about \$15 on the part of the student.

<sup>2</sup>The student is advised to collect in advance a representative composite sample of surface soil (at least 6 pounds) from land in which he is interested (see page 44 of the Soil Fertility Laboratory Manual, or Illinois Experiment Station Circular 150).

<sup>3</sup>In registering for a course with variable credit hours, a student must put down on his study list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e.g., not 5-10, but 5, or 6, or 7, or 8, or 9, or 10.

19e-19f. **Research Work in Agronomy.**—Soil biology. *I, II; (5-10)*.<sup>1</sup>  
Professor WHITING

19g-19h. **Research Work in Agronomy.**—Plant breeding. *I, II; (5-10)*.<sup>1</sup>  
Assistant Professor WOODWORTH

19j-19k. **Research Work in Agronomy.**—Field crops. *I, II; (5-10)*.<sup>1</sup>  
Professor BURLISON

19m-19n. **Research Work in Agronomy.**—Farm mechanics. *I, II; (5-10)*.<sup>1</sup>  
Mr. SHAWL

20. **Farm Concrete Construction.**—Materials used in concrete construction; mixing and placing; simple comparative tests; specifications and estimates for farm concrete construction. Recitations; laboratory. *I, II; (2)*.  
Mr. SCHOLL

22. **Plant Breeding.**—The improvement by breeding of field crops, including grains, grasses, and legumes; general principles involved, with practical applications. Lectures, assigned reading, demonstrations, and laboratory.

(Schedule is so arranged that this course may be taken in conjunction with Agronomy 7.) *II; (2)*.  
Assistant Professor WOODWORTH  
*Prerequisite:* Botany 1; Chemistry 13a; Agronomy 25; junior standing.

[23. **Plant Food Supplies.**—The world's supply of plant-food materials; utilization and conservation. *II; (2)*. Not given in 1920-1921.  
Assistant Professor DETURK]

25. **Farm Crops.**—Plant growth; structure; principles governing the production and harvesting of common farm crops; habits; characteristics, requirements, means of improvement; common diseases, insects, and their control; weed seed identification; methods of weed control; weed testing for purity and germination; market grades of grain; grain judging. Laboratory fees, \$2.00. *I or II; (4)*. Mr. PIEPER, Mr. DUNGAN, Mr. CARNEY

26. **Elementary Farm Mechanics.**—Ropes, soldering, babbitting, belt lacing, pipe cutting, plumbing, sewage disposal, farm water systems, lighting systems, heating systems, power transmission, elementary mechanics, and equalizers. Design of a farm shop. *I or II; (3)*.  
Mr. SCHOLL

[27. **Drainage Design.**—Designing of tile drainage systems from level note data and contour maps; estimating sizes, amounts, and cost of tile, and cost of system; designing of outlet open ditch systems for drainage districts; estimation of sizes and costs; drainage district laws; preparing bids on contract jobs; advanced field work. *I; (1-5)*.<sup>1</sup> Not given 1920-21].

28. **Advanced Gas Engines and Tractors.**—Advanced work in theory, construction, ignition troubles, assembly, draw bar and belt h. p. ratings. Lectures and laboratory. *I; (3)*. (Consult instructor before registering).  
Mr. SHAWL

*Prerequisite:* Agronomy 2, 3, 26.

### Courses for Graduates

101. **Soil Investigations.**—Systems of soil investigation; sources of error and methods of control; interpretation of results. Twice a week; *II; (1 unit)*.

Assistant Professor DETURK

<sup>1</sup>In registering for a course with variable credit hours, as 5-10 a student must put on his study-list, not the possible hours as shown here, but the number of hours for which he intends to take the course, e.g., 5, or 6, or 7, or 8, or 10. In courses 18 and 19 the minimum number of credits for the entire course is five hours and the maximum is ten hours.

**104. Seminary in Agronomy.**—Critical study by graduate students, faculty, and staff members or current literature on subject of soils and crops. *Once a week. I, II; (½ unit).* Professor WHITING

**112. Plant Breeding.**—A detailed study of experiments at this station; methods and results reported from other states and from foreign countries. *I, II; (½ to 2 units)*<sup>1</sup>. Assistant Professor WOODWORTH

**114. Crop Production.**—Crop ecology, methods and results of crop production, investigations. *Once a week. I, II; (½ to 2 units)*<sup>1</sup>. Professor BURLISON

**118. Research.**—A special problem is chosen by each student; consultation one to two times a week for different students. When registering for a thesis, the work is pursued under this course. *I, II; (1 to 4 units)*<sup>1</sup>. Heads of Divisions

### ANIMAL HUSBANDRY

HERBERT WINDSOR MUMFORD,<sup>2</sup> B.S., *Professor of Animal Husbandry, Head of Department*  
WALTER CASTELLA COFFEY, M.S., *Professor of Sheep Husbandry and Acting Head of the Department*

HARRY SANDS GRINDLEY, D.Sc., *Professor of Animal Nutrition*

JAMES LLOYD EDMONDS, B.S., *Professor of Horse Husbandry*

HENRY PERLY RUSK, M.S.A., *Professor of Cattle Husbandry*

JOHN A DETLEFSEN, D.Sc., *Professor of Genetics*

ROBERT GRAHAM, D.V.M., *Professor of Animal Pathology*

WILLIAM HERSCHEL SMITH, M.S., *Associate Professor of Animal Husbandry*

HAROLD HANSON MITCHELL, Ph.D., *Associate Professor of Animal Nutrition*

ELMER ROBERTS, Ph.D., *Assistant Professor of Genetics*

ROSCOE RAYMOND SNAPP, B.S., *Assistant Professor of Animal Husbandry*

DANIEL OTIS BARTO,<sup>3</sup> B.S., *Associate in Animal Husbandry*

SLEETER BULL, M.S., *Associate in Animal Nutrition*

JOHN BENJAMIN RICE, M.S., *Associate in Animal Husbandry*

WILLIAM GARFIELD KAMMLADE, M.S., *Associate in Animal Husbandry*

WORTH ARTHUR ALLISON, M.S., *Associate in Animal Husbandry*

IVAN BERTRAND BOUGHTON, D.V.M., *Associate in Animal Pathology*

HERMAN RICHARD SCHWARZE, D.V.S., M.D.C., *Associate in Animal Pathology*

ALFRED ERIC ROMYN<sup>4</sup>, M.S., *Assistant in Animal Husbandry*

LUCY BARTO<sup>5</sup>, B.S., *Assistant in Poultry Husbandry*

### Courses for Undergraduates

Animal Pathology: Animal Husbandry 34, 35.

Beef Cattle: Animal Husbandry 11a, 11b.

Breeding, Feeding, Management, and Marketing: Animal Husbandry 8, 21, 28, 29, 30, 32.

General Judging: Animal Husbandry 1a, 2a, 4a, 5, 11a, 22.

<sup>1</sup>In registering for a course with variable units a student must put down on his study-list, not the possible units as shown here, but the number of units for which he intends to take the course; e.g., not ½-4, but ½ or 1, or 2, or 3, or 4.

<sup>2</sup>On leave of absence until March, 1922.

<sup>3</sup>Deceased, January 18, 1921.

<sup>4</sup>Resigned February 1, 1921.

<sup>5</sup>Second semester.

Genetics: Animal Husbandry 30.  
 Horses: Animal Husbandry 4a, 4b.  
 Meat: Animal Husbandry 10, 24.  
 Nutrition: Animal Husbandry 7, 31.  
 Poultry: Animal Husbandry 23.  
 Sheep: Animal Husbandry 1a, 1b, 27.  
 Swine: Animal Husbandry 2a, 2b, 26.

NOTE.—Students registered in advanced courses such as 10, 23, 29, and 32, are required to participate in tours of inspection of representative markets, farms, herds, flocks, and studs.

**1a. Sheep: Breeds and Market Classes.**—Breeds used for mutton and wool production; types, characteristics, and adaptability; market classes and grades of sheep and wool. Lectures; judging. *I*; (2). Professor COFFEY, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 5 or its equivalent.

**1b. Sheep: Breeding, Feeding, and Management.**—Pure bred and grade flocks; feeding, housing, and sheparding. Lectures, reference readings.

Professor COFFEY, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 1a and 1b the same semester.

**2a. Swine: Judging.**—History of the leading breeds; types, characteristics, and adaptability; market classes and grades; market reports. Lectures; judging. *II*; (2).

Mr. RICE

*Prerequisite:* Animal Husbandry 5 or its equivalent.

**2b. Swine Husbandry.**—Economic production of market and breeding hogs. Breeding, feeding, housing, care, sanitation, common diseases, and marketing. Lectures; assigned reading; quizzes. *II*; (3).

Mr. RICE

*Prerequisite:* Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 2a and 2b the same semester.

**4a. Market Classes of Horses and Mules and Breeds of Horses.**—Market classes, grades, and requirements. History of the leading breeds; types, characteristics, and adaptability. Lectures; judging. *II*; (2).

Professor EDMONDS, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 5 or its equivalent.

**4b. Breeding, Feeding, and Management of Horses.**—Care of stallions, mares, and foals; of work horses and drivers at labor and idle; fattening horses for market. Lectures; assigned reading. *II*; (3).

Professor EDMONDS, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 6, 8, 21, or their equivalents.

It is advisable to take 4a and 4b the same semester.

**5. Fundamentals of Live Stock Judging.**—Principles and criteria governing the selection of farm animals for market, feed lot, breeding purposes, milk production and work; nomenclature, the use of the score card, and the comparative judging of the various types of live stock; origin of types; characteristics of the breeds. Required in freshman year. *I* or *II*; (3). Assistant Professor SNAPP, Mr. BULL, Mr. ALLISON

**7. Principles of Animal Nutrition.**—Composition of feeding stuffs and the chemistry of food nutrients; digestion and the determination of digestibility; absorption and metab-

olism of organic and inorganic nutrients; the function of fats, carbohydrates, proteins, and ash constituents in nutrition; energy, metabolism and the fuel value of the feeding stuffs; regulating factors in metabolism; food requirements and feeding standards; the specific value of different feeds in nutrition. Lectures; recitations. *I*; (5).

Associate Professor MITCHELL

*Prerequisite:* Animal Husbandry 21; Chemistry 13a.

**8. Principles of Breeding.**—Elemental facts of evolution and genetics; origin of domesticated animals and plants; history of systematic breeding; the relation to genetics of old and new theories of breeding. Required in the sophomore year. *I* or *II*; (2).

Professor ROBERTS

**9. Investigation and Thesis.**—Open to any student who has completed not less than 90 hours credit before the senior year provided he has done not less than 20 hours work in courses pertinent to the thesis problem. Subject to the approval of the head of the department. *I* or *II*; (5-10)<sup>1</sup> Time to be arranged. Heads of divisions

**10. Meat.**—Farm butchering, curing, and care of meats; yield, quality, and values of meat and by-products, as related to breeding, feeding, and health of animals; classes, grades and cuts of meat in wholesale and retail markets. The class will visit a Chicago packing house. The cost of the trip will be about \$10. *II*; (3). Mr. BULL

*Prerequisite:* Two years of university work.

**11a. Beef Cattle.**—Breeds and market classes; history of the leading breeds; beef type from the standpoint of the butcher, the feeder, and the breeder; classification and value of each grade according to current market reports. Judging; lectures; quizzes; assigned readings. *I*; (2).

Professor RUSK, Assistant Professor SNAPP, Mr. ALLISON

*Prerequisite:* Animal Husbandry 5 or its equivalent.

**11b. Beef Production.**—Breeding and management of pure bred herds; breeding for the market; combined beef and milk production, economic factors in cattle feeding; influence of age, grade, breed, condition, and sex; equipment; pork and manure as by-products of beef production. Lectures; quizzes; assigned readings (text book). *I*; (3).

Professor RUSK, Assistant Professor SNAPP, Mr. ALLISON

*Prerequisite:* Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 11a and 11b simultaneously.

**21. Principles of Feeding.**—Classification, digestibility, and functions of feed nutrients; classification and values of feeding stuffs; feed requirements and calculation of balanced rations for farm animals. Required in the sophomore year. *I* or *II*; (2).

Mr. BULL, Mr. ALLISON

*Prerequisite:* Chemistry 1 or 1a; Chemistry 2; Animal Husbandry 5; and registration in Animal Husbandry 8.

**22. Advanced Stock Judging.**—Animal conformation, quality, and condition with reference to market and show yard requirements; selection of horses, beef cattle, sheep, and swine, for feed lot, market, and exhibition; judging at live stock shows. *I*; (3).

Professor COFFEY and heads of divisions

*Prerequisite:* Animal Husbandry 1a, 2a, 4a, 11a, or their equivalents.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study list not the possible hours, as shown here, but the number of hours for which he intends to take the course; e.g., not 2-5, but 2, or 3, or 4, or 5.

**[23. Poultry: Types, Breeds, and Varieties.]**—Exhibiting, and judging; principles of breeding; poultry houses and equipment; feeding, hatching, and brooding; market eggs and poultry; crate-fattening and dressing; diseases and their treatment. A limited number of short trips will be taken, the total cost of which will not exceed \$10. *II*; (4). Not given in 1920-21.

*Prerequisite:* Animal Husbandry 5 or its equivalent].

**[24. Meat.]**—Influence of type, condition, age, sex, and feeds on the yield and market grade of meat products. *II*; (2-5)<sup>1</sup>. Time to be arranged. Not given in 1920-1921.

Professor COFFEY

*Prerequisite:* Animal Husbandry 10, and 1a or 2a or 11a; three years' work in the University, or its equivalent].

**26. Swine Husbandry.**—Special problems. *II*; (3). Time to be arranged.

Mr. RICE

*Prerequisite:* Animal Husbandry 2a, 2b, three years' work in the University, or its equivalent; permission of the instructor.

**[27. Sheep Husbandry.]**—Factors determining the importance of the industry in leading sheep growing countries, particularly different parts of the United States. *II*; (2-5)<sup>1</sup>. Time to be arranged. Not given in 1920-1921.

Professor COFFEY

*Prerequisite:* Animal Husbandry 1a, 1b; three years' work in the University, or its equivalent].

**28. Advanced History of Breeds of Live Stock.**—Horses, beef cattle, sheep, and swine. Methods of great breeders; performances and pedigrees of famous animals; breed type as exemplified in the University and other herds. Lectures; assigned readings; problems. *I*; (2-6)<sup>1</sup>.

#### Breeds offered 1920-21

Beef cattle.....	Shorthorns, Aberdeen Angus
Horses.....	Percherons, Belgians, Standard breds
Swine.....	Berkshires, Duroc Jerseys
Sheep.....	Shropshires, Southdowns

#### Breeds offered 1921-1922

Beef cattle.....	Herefords, Galloways
Horses.....	Shires, Clydesdales, American Saddlers
Swine.....	Poland Chinas, Chester Whites
Sheep.....	Rambouillets, Oxford Downs

Professor COFFEY and heads of divisions

*Prerequisite:* "a" and "b" courses in class of live stock elected. See note at the beginning of description of animal husbandry courses.

**[29. Systems of Live Stock Farming.]**—The physical and economic factors which tend to determine the types of farming. The economic organization of the various types of live stock farming with special reference to the proportions of land, labor, and capital em-

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e.g., *na*; 2-5 but 2, or 3, or 4, or 5.



ployed in the production of the various classes of live stock. Planning systems of live stock farming. The class will visit some of the live stock farms included in the cost accounting investigations conducted by the department of animal husbandry and the department of farm organization and management. This trip will cost about \$15.00. *II*; (2). Not given in 1920-1921.

Professor HANDSCHIN

*Prerequisite:* Animal Husbandry 5, 8, 21, and 6 hours' credit from 1b, 2b, 4b, or 11b; Farm Management 1. See note at the beginning of description of Animal Husbandry courses].

**30. Genetics.**—Heredity, variation, elements of biometry, and their practical application to breeding. Lectures; demonstrations; laboratory. Laboratory fee, \$1.00. *I*; (5).

Professor DETLEFSEN, Professor ROBERTS

*Prerequisite:* Two years of university work. Before registering, students must secure the approval of the instructor.

**31. Advanced Course in Animal Nutrition.**—Some of the more advanced phases of the chemistry and physiology of nutrition; recent developments on the nature of growth, the factors affecting metabolism, and the food requirements of animals under different conditions; nutrition investigations of agricultural experiment stations in this and other countries. Lectures; quizzes; assigned readings. *II*; (3). Time to be arranged.

Associate Professor MITCHELL

*Prerequisite:* Animal Husbandry 7; an elementary knowledge of organic chemistry is also desirable.

**[32. Marketing Live Stock.**—Markets and methods of marketing live stock and their products. Advertising and sale of surplus pedigreed live stock. Certain inspection trips will be required of the class. The expense of these trips will be about \$15.00. *II*; (2). Not given in 1920-1921.

*Prerequisite:* Two years of university work. At least 4 credits in Animal Husbandry 1a, 2a, 4a, and 11a. See note at the beginning of description of animal husbandry courses].

**34. Anatomy and Physiology of Farm Animals.**—The structure and function of the animal economy (horse and cow) in health, supplemented by a discussion of the common malformations and non-specific diseases affecting the various organs and systems of the animal. Lectures; assigned readings; quizzes. *I*; (2).

Dr. BOUGHTON

*Prerequisite:* Sixty hours of university work.

**35. Contagious Diseases of Farm Animals.**—The causes, symptoms, and methods of prevention of the common diseases of animals transmissible to man. A discussion of anti-serums, vaccines, antitoxina, and bacterins, as well as other biological products as related to the prevention, cure, and diagnosis of animal diseases. Lectures; assigned readings; quizzes. *II*; (2).

Professor GRAHAM

*Prerequisite:* Animal Husbandry 34.

### Courses for Graduates.

Students entering graduate work in animal husbandry must have a thoro training in the fundamental principles of the subject either in connection with or in addition to an agricultural course of study substantially equivalent to that offered in this University.

**103. Live Stock Experimentation.**—Objects, methods, and the sources of error in experimental work dealing with the feeding, breeding and management of farm animals. Once a week, *II*; ( $\frac{1}{2}$ ). Time to be arranged.

Professor DAVENPORT

**110. Animal Nutrition.**—Biochemistry, digestion, metabolism, and nutritive value of the proteins. Lectures; seminar. Twice a week; *I, II*; (1 unit).

Professor GRINDLEY, Associate Professor MITCHELL

**112. Research.**—Opportunity is afforded to pursue investigations along the following lines:

(a) Economic factors involved in meat production.

Professor MUMFORD, Professor COFFEY, Professor RUSK

(b) Systems of live stock farming.

Professor HANDSCHIN

(c) The valuation of pedigrees.

Professor COFFEY

(d) Animal Nutrition. The chemistry of feeding stuffs; metabolism experiments and biochemical studies connected with the nutrition of farm animals.

Professor GRINDLEY, Assistant Professor MITCHELL

(e) Genetics. Problems in heredity and variation.

Professor DETLEFSEN

(f) Factors affecting the quality, quantity, strength, and condition of wool.

Professor COFFEY

(a), (b), (c), and (f), one to three times a week; (d), and (e), five times a week; *I, II*; (1 to 2 units).<sup>1</sup> These courses may be taken during the summer by special permission. Time to be arranged.

**[116. Seminar in Animal Husbandry.**—Once in two weeks; *I, II*. Not given 1920–1921. Members of the department].

**117. Genetics.**—Study and criticism of genetic experiments, biological and mathematical methods employed, and the validity of the conclusions. Two or five times a week; *I, II*; (1 to 2 units). Time to be arranged.

Professor DETLEFSEN

### Summer Session Courses

**S5a. Animal Husbandry for Schools.**—The types and breeds, selection for market and for breeding purposes, breeding, feeding, care and management of live stock, with special reference to the materials and methods of teaching animal husbandry in schools. (2½).

Mr. ALLISON

*Equivalent:* Animal Husbandry 5 (in part).

**S21a. Live Stock Management.**—The fundamental principles of feeding and management of live stock. Lectures, recitations, assigned readings, observation and practise. Designed to aid teachers in the live stock project work of vocational agriculture. (2).

Mr. ALLISON

*Equivalent:* Animal Husbandry 21 (in part).

**S23a. Poultry.**—Principles and practises of poultry raising on the farm and at the village home. Identification and comparison of breeds; housing, feeding, fattening, marketing; handling eggs, hatching and raising chicks, caponizing, etc. (2½). Mr. BARTO

*Equivalent:* Animal Husbandry 23 (in part).

**S30. Genetics.**—Principles of breeding and genetics in their relation to plant and animal improvement. Methods of teaching, selection of pertinent illustrative material, subject matter, and types of observation and projects possible for secondary schools. (2).

Professor ROBERTS

*Equivalent:* Animal Husbandry 30 (in part).

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e.g., not 2-5 but 2, or 3, or 4, or 5.

## ARCHITECTURE

LORING HARVEY PROVINE, B.S., A.E., *Professor of Architectural Engineering and Head of the Department*

NATHAN CLIFFORD RICKER, D.Arch., *Professor, Emeritus*

NEWTON ALONZO WELLS, M.P., *Professor of Architectural Decoration, Emeritus*

JAMES McLAREN WHITE, B.S., *Professor of Architectural Engineering, Supervising Architect*

CHESTER MORTON DAVISON, B.S., *Associate Professor of Architectural Design*

CYRUS EDMUND PALMER, M.S., *Assistant Professor of Architectural Engineering*

REXFORD NEWCOMB, A.M., M.Arch., *Assistant Professor of Architectural History*

LEMUEL CROSS DILLENBACK, A.M., *Assistant Professor of Architectural Design*

WILLIAM MACY STANTON, M.S., *Assistant Professor of Architectural Design*

JOSEPH EDWIN BURGESS, B.P., *Associate in Freehand Drawing*

THOMAS EDWARD O'DONNELL, B.S., *Associate in Architectural Design*

RALPH STANLEE FANNING, B.Arch., M.S., *Associate in Architecture*

LOUISE MARIE WOODROOFE, B.P., *Instructor in Freehand Drawing*

CHAUNCEY RUTHVEN MCANLIS, C.E., *Instructor in Architectural Engineering*

ERNEST LANGFORD, B.S., *Instructor in Architectural Construction*

STANLEY POTTER STEWART, B.Arch., *Instructor in Architectural Design*

WINIFRED FEHRENKAMP, B.L.S., *Librarian, Ricker Library*

### A. ARCHITECTURE

**13, 14, 15, 16. History of Architecture.**—From the Egyptian period to modern times; effects of local, political, and economic conditions; influence of material, climate, structural systems, the various countries and periods; evolution of architectural forms. Illustrated lectures; quizzes. *I, II; (2).* Assistant Professor NEWCOMB

*Prerequisite:* Sophomore standing in architecture or architectural engineering, or Architecture 31 and 32. No prerequisite required of students in Liberal Arts and Sciences.

**23-24. Freehand Drawing.**—Charcoal drawing from the cast. Water color work. *I, II; (2).* Miss WOODROOFE

*Prerequisite:* Architecture 32.

**25. Freehand Drawing.**—Principles underlying arrangement of form and color; rhythm and sequence; harmony and contrast. *I; (2).* Mr. BURGESS

*Prerequisite:* Architecture 24.

**26. Freehand Drawing.**—Charcoal, pen, pencil, and water color drawing from the cast and still life. Out-of-door sketching. *II; (2).* Mr. BURGESS

*Prerequisite:* Architecture 25.

**27. Freehand Drawing.**—Sketching from still life; study of proportions. *I; (2).*

Mr. BURGESS

*Prerequisite:* Architecture 26.

**28. Freehand Drawing.**—Water color; original decorative composition; out-of-door sketching. *II; (2).* Mr. BURGESS

*Prerequisite:* Architecture 27.

**31. Architectural and Freehand Drawing.**—Instruments, pen, pencil, and brush; lettering; shades and shadows; perspective. Charcoal drawing from the cast. *I; (4).*

MR. FANNING, MISS WOODROOFE

*Prerequisite:* Registration in General Engineering Drawing 2.

**32. Architectural and Freehand Drawing.**—Elements of architecture; walls, moldings, doors, windows, the Orders, vaults, roofs, stairs. Wash rendering, stereotomy, charcoal drawing from the cast. Lectures and sketching. *II*; (4).

Mr. FANNING, Miss WOODROOFE

*Prerequisite:* Architecture 31.

**33-34. Design.**—(Elementary). Rendered order and sketch problems involving simple composition; library research in elements of composition. *I, II*; (3).

Assistant Professor STANTON

*Prerequisite:* Architecture 31, 32.

**35-36. Design.**—(Intermediate). Rendered plan and sketch problems; library research in plan and interior elements. *I, II*; (5).

Assistant Professor DILLENBACK

*Prerequisite:* Architecture 34.

**37. Design.**—(Advanced.) Original design. *I*; (7).

Associate Professor DAVISON

*Prerequisite:* Architecture 36.

**38. Advanced Design or Thesis.**—Extended original problems in design. *II*; (7)\*

Associate Professor DAVISON

*Prerequisite:* Architecture 37.

**43. Technology of Materials.**—The growth, cutting, seasoning, working, and finishing of woods; structural and decorative properties; detailing various parts on a large scale; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish; preparation of working drawings. *I*; (3).

Mr. LANGFORD, Mr. O'DONNELL

*Prerequisite:* General Engineering Drawing 2; Architecture 31, 32.

**44. Technology of Materials.**—Materials for stone masonry; their uses, defects, qualities, and preparation; kinds of masonry and external finish; tools for stone cutting; brick masonry, its materials and bonds; terra cotta design, manufacture, and use; columns, beams, girders, and footings: joints and connections. Working drawings. *II*; (3).

Mr. LANGFORD, Mr. O'DONNELL

*Prerequisite:* General Engineering Drawing 2; Architecture 31, 32, 43.

**45. Graphic Statics.**—Elementary graphic statics; its application to trussed roofs; steel and masonry arches, domes. The graphical representation of reactions, bending moments, shear and deflection in beams. (For architects.) *I*, (3).

Mr. McANLIS

*Prerequisite:* Theoretical and Applied Mechanics 14, 15, 16.

**46. Roofs.**—Wooden and steel roofs; determination of section of members; design of joints; mill and steel skeleton construction. *II*; (3).

Mr. McANLIS

*Prerequisite:* Architecture 45.

**55. Building Sanitation.**—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in dwellings. (For architects.) Recitations; lectures; designs for special problems. *II*; (1).

Mr. O'DONNELL

*Prerequisite:* Physics 9a-9b, 10a-10b; Architecture 43, 44.

**59. Domestic Architecture.**—(Given in connection with Home Economics 2.) Lectures; criticism. *I*.

Assistant Professor NEWCOMB and others

**60. Special Lectures.**—Special lectures on architectural subjects. (For architects.)  
*II; (1).* Assistant Professor PALMER  
*Prerequisite:* Senior standing.

**65-66. Theory of Architecture.**—Influence of function on architectural form; plan and elevation; problem analysis. Lectures; research; exercises. *I, II; (1).*  
 Assistant Professor DILLENBACK  
*Prerequisite:* Registration in Architecture 25, 26.

**67. Theory of Form.**—Principles underlying arrangement of form; architectural ornament and composition, proportion and balance. *II; (2).* Mr. BURGESS  
*Prerequisite:* Senior standing in architecture.

**68. Specifications.**—General and special clauses and their arrangement; classifying material to facilitate writing specifications; practise in writing several sets; relations of the architect, owner, and builder; office organization; building ordinances; professional ethics. (For architects.) *I; (3).* Professor PROVINCE  
*Prerequisite:* Senior standing in architecture.

**99. Inspection Trip.**—*I; (no credit).*  
*Prerequisite:* Senior standing.

#### Courses for Graduates.

Entrance on graduate work in architecture presupposes the full undergraduate course in that subject. Semi-weekly conferences are held and additional instruction given in all courses as may be required.

**101. Architectural Construction.**—Design of special structures. *I, II; (½ to 1 unit).*  
*Twice a week. Time to be arranged.* Professor RICKER, Professor PROVINCE

**102. Sanitation of Buildings.**—Planning, design, and installation. *I; (¼ to ½ unit).*  
*Twice a week. Time to be arranged.* Professor RICKER

**103. Advanced Architectural Graphics**—*I, II; (1 to 2 units).* *Twice a week. Time to be arranged.* Professor PROVINCE

**104. Architectural Design.**—Advanced course. *I, II; (1 to 2 units).* *Twice a week. Time to be arranged.* Associate Professor DAVISON

**105. Architectural Practise.**—Contracts, specifications, and office methods. *I; (¼ to ½ unit).* *Twice a week. Time to be arranged.* Professor PROVINCE

**106.—Architectural History.**—Special research. *I, II; (½ to 2 units).* *Twice a week. Time to be arranged.* Professor RICKER

#### B.—ARCHITECTURAL ENGINEERING

**33. Architectural Drawing.**—Lettering; elements of architecture; walls, moldings, doors, windows, shades and shadows, perspective, the Orders, vaults, roofs, stairs; wash rendering, stereotomy, charcoal drawing from the cast. Lectures and sketching. *I; (3).*  
 Mr. STEWART, Mr. O'DONNELL  
*Prerequisite:* General Engineering Drawing 1, 2.

**34. Design.**—(Elementary) Rendered order and sketch problems; library research. *II; (3).* Mr. STEWART, Mr. O'DONNELL  
*Prerequisite:* Architectural Engineering 33.

**35-36. Design.**—(Intermediate.) Rendered plan and sketch problems; library research. *I, II; (3).* Mr. STEWART, Mr. O'DONNELL

*Prerequisite:* Architectural Engineering 34.

**43. Technology of Materials.**—The growth, cutting, seasoning, working, and finishing of woods; structural and decorative properties; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish; preparation of working drawings. (For architectural engineers.) *I; (2).* Mr. LANGFORD

*Prerequisite:* Architectural Engineering 31; General Engineering Drawing 2.

**44. Technology of Materials.**—Materials for stone masonry; their uses, defects, qualities, and preparation; kinds of masonry and external finish; tools for stone cutting; brick masonry; bonds; terra cotta design, manufacture, and use; columns, beams, girders; joints and connections; preparation of working drawings. *II; (2).* Mr. LANGFORD

*Prerequisite:* Architectural Engineering 33, 43; General Engineering Drawing, 1, 2.

**45. Graphic Statics.**—Elements, and applications to forces; beams under fixed and moving loads. *I; (3).* Mr. McANLIS

*Prerequisite:* Theoretical and Applied Mechanics 20; registration in Theoretical and Applied Mechanics 25.

**46. Advanced Graphic Statics.**—The analysis of masonry arches, domes, and vaults; large and unusual forms of roof trusses. *II; (3).* Mr. McANLIS

*Prerequisite:* Architectural Engineering 45.

**47. Architectural Engineering.**—Design and working drawings of trusses, members and joints, plate girders, chimneys; investigations of wind bracing. *I; (5).*

Assistant Professor PALMER

*Prerequisite:* Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46.

**48. Architectural Engineering.**—Design and detail of footings; investigation of framed structures; working drawings. *II; (5).* Assistant Professor PALMER

*Prerequisite:* Architectural Engineering 47.

**57. Fireproof Construction.**—Principles and design of fireproof construction; the advantages of each type. *I; (2).* Assistant Professor PALMER

*Prerequisite:* Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46; registration in Architectural Engineering 47.

**58. Fireproof Construction.**—(Continuation of first semester's work.) Details and working drawings. *II; (2).* Assistant Professor PALMER

*Prerequisite:* Architectural Engineering 47, 57; registration in Architectural Engineering 48.

**67. Building Sanitation.**—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in all types of buildings. (For architectural engineers). Recitations, lectures and quizzes; designs for special problems. *II; (2).* Mr. O'DONNELL

*Prerequisite:* Physics 1a-3a, 1b-3b; Architectural Engineering 43 and 44.

**68. Estimates and Specifications.**—Methods of estimating, illustrated by problems; a study of specifications, their general and special clauses, relations of architect, owner, and builder. (For architectural engineers.) *II; (4).* Professor PROVINCE

*Prerequisite:* Senior standing in architectural engineering.

**99. Inspection Trip.**—*I; (no credit).*

*Prerequisite:* Senior standing.

# ART AND DESIGN

EDWARD JOHN LAKE, B.S., *Assistant Professor*  
 LORADO TAFT, M.L., *Non-resident Professor of Art*  
 CHARLES EARL BRADBURY, B.P., *Assistant Professor*  
 MARY MINERVA WETMORE, *Instructor*  
 EGBERT E NEARPASS, JR., B.P., *Instructor*

**1. Freehand Drawing.**—Drawing in charcoal and pencil; perspective; light, shadows, shade, and reflections in monochrome; graphical representation. *I* or *II*; (3).  
 Assistant Professor LAKE, Assistant Professor BRADBURY, Mr. NEARPASS

**2. Advanced Freehand Drawing.**—Drawing in tone; values, composition, and technical expression. Outdoor sketching. *II*; (3). Assistant Professor BRADBURY  
*Prerequisite:* Art and Design 1.

**3a-3b. Anatomical Representation.**—Drawing from plaster models and from life; proportion, construction, composition and action in the representation of the human figure. *I, II*; (3). Assistant Professor BRADBURY  
*Prerequisite:* Art and Design 1.

**4a-4b. Water Color Painting.**—Still-life; flowers and outdoor sketching with application to pictorial and decorative art. *I, II*; (3). Miss WETMORE  
*Prerequisite:* Art and Design 1.

**5a-5b. Drawing from Life.**—Monochrome, with application to pictorial and decorative purposes. *I, II*; (3). Miss WETMORE  
*Prerequisite:* Art and Design 1, 3a.

**6a-6b. Portrait in Oil Colors.**—Painting in oil colors from costumed models; portrait and character study, *I, II*; (3). Miss WETMORE  
*Prerequisite:* Art and Design 1, 3a, 5a.

**7a-7b. Still-life in Oil Colors.**—Still-life; flowers and outdoor sketching, with application to pictorial and decorative art. *I, II*; (3). Miss WETMORE  
*Prerequisite:* Art and Design 1, 2.

**8a-8b. Modeling.**—Clay modeling of anatomical and decorative forms; plaster molds and models; sculptural art. *I, II*; (3). Assistant Professor LAKE  
*Prerequisite:* Art and Design 1.

**10. Sketching.**—Practise in pen, pencil, wash, charcoal, pastel; requirements for reproduction; technical methods in sketching from still-life, landscape, and figure. *II*; (1). Assistant Professor BRADBURY  
*Prerequisite:* Art and Design 1.

**12. Design.**—Theory of pure design and the effect of material on execution; fitness of various forms of media for different sorts of design; space division and space relations; color schemes and exercises; conventionalization of natural forms for various functions; practise in execution. *I* or *II*; (2). Assistant Professor LAKE  
*Prerequisite:* Art and Design 1.

**14. Applied Design.**—(Practise). Organic design as applied in crafts or in commercial art as posters, bookplates, book-covers. *I* or *II*; (3). Mr. NEARPASS  
*Prerequisite:* Art and Design 1, 12.

**19. History of Fine Arts.**—The periods and styles of the arts of architecture, sculpture, and painting previous to the Italian Renaissance. *I*; (2). Assistant Professor LAKE  
*Prerequisite:* One year of college work.

**20. History of Fine Arts.**—The periods and styles of the arts of architecture, sculpture, and painting of the Italian Renaissance and to the present time. *II*; (2).

Assistant Professor LAKE

*Prerequisite:* One year of college work.

### Summer Session Courses

**S1. Elementary Art.**—Form drawing from still-life, cast, and nature; outline and shading in charcoal; lectures on perspective. (3).

Assistant Professor LAKE

**S9. Art for the Common Schools.**—The planning and execution of work in common school art study; design; blackboard drawing. Lectures on organization, equipment, and the administrative side of the supervisor's work. (1).

Assistant Professor LAKE

**S20. History of Fine Arts.**—(2).

Assistant Professor LAKE

## ASSYRIAN

(See ORIENTAL LANGUAGES AND LITERATURE)

## ASTRONOMY

JOEL STEBBINS, Ph.D., D.Sc., *Professor*

CHARLES CLAYTON WYLIE, A.M., *Assistant*

No major for undergraduates is offered in astronomy. Students may well make mathematics or physics their major, and take Astronomy 7, 8, 14, and 15 as a minor.

Students ordinarily begin with course 1, but those who have had laboratory physics may elect course 2.

### Courses for Undergraduates

**1. Elementary Astronomy.**—Lectures; recitations; one evening a week at the observatory. *I* or *II*; (3).

Professor STEBBINS, Mr. WYLIE

*Prerequisite:* Mathematics 4.

**6. Navigation.**—Piloting, dead reckoning, latitude and longitude by astronomical observations; use of compass and sextant. *II*; (3).

Professor STEBBINS

*Prerequisite:* Mathematics 4, sophomore standing.

### For Advanced Undergraduates and Graduates

**[7-8. Theoretical Astronomy.**—Celestial mechanics; theory of orbits; perturbations. *I*, *II*; Not given in 1920-21.

Professor STEBBINS

*Prerequisite:* Mathematics 9].

**14. Observational Astronomy.**—The working methods of an astronomical observatory; individual problems. *II*; (3).

Mr. WYLIE

*Prerequisite:* Astronomy 15.

**15. Geodetic Astronomy.**—The sextant, transit, and zenith telescope; methods similar to those of the United States Coast Survey. *I*; (3).

Mr. WYLIE

*Prerequisite:* Mathematics 7.

### Courses for Graduates

**101. Seminar.**—Three times a week; *I*, *II*; (1 unit).

Professor STEBBINS

**[102. Stellar Astronomy.**—Orbits of binary stars; variable stars; theoretical photometry. *Three times a week. I, II; (1 unit). Not given in 1920-21.*

Professor STEBBINS]



## ATHLETIC COACHING AND PHYSICAL EDUCATION

(See also PHYSICAL EDUCATION FOR MEN)

GEORGE A HUFF, B.S., *Director*  
 JOHN LORENZO GRIFFITH, A.B., *Assistant Professor*  
 ROBERT CARL ZUPPKE, Ph.B., *Assistant Professor*  
 CARL LEONARD LUNDGREN, B.S., *Associate*  
 HARRY LOVERING GILL, *Associate*  
 ARTHUR JAMES SCHUETTNER, *Associate*  
 FRANK J WINTERS, B.P.E., *Associate*  
 ERNEST ELMER BEARG, A.B., *Instructor*  
 EDWIN JOHN MANLEY, *Instructor*  
 PAUL HENRY PREHN, *Instructor*  
 ERNESTO RAY KNOLLIN, A.B., *Assistant*  
 DAVID MADISON BULLOCK, *Assistant*

## A. ATHLETIC COACHING COURSES

3a. **Free Exercises.**—With or without hand apparatus, including gymnastic marching tactics. Personal proficiency in execution and exactness of form. Progression and value of system of these exercises. Practise teaching. (10 hours practise and theory for  $\frac{1}{2}$  semester). *I*; (2). Mr. SCHUETTNER

3b. **Free Exercises.**—Continuation of Athletic Coaching 3a. (10 hours practise and theory for  $\frac{1}{2}$  semester). *II*; (2). Mr. SCHUETTNER

4. **Elementary Apparatus.**—Simple exercises on horizontal bar, parallel bar, horse, rings, mats, etc., to be used in class or individual form. Progression and value of system of these exercises. Personal proficiency and exactness of form. Practise teaching. (5 hours practise, and theory). *II*; (2). Mr. SCHUETTNER

*Prerequisite:* Athletic Coaching 3.

5. **Physical Diagnosis.**—Elementary physical diagnosis. *II*; (2).

*Prerequisite:* Athletic Coaching 9, 12, 13, 14.

6. **Group Games and Mass Athletics.**—Group games of low organization and classification of all games. Adapted to meet the need of the playground, schoolroom, and gymnasium. Mass athletics includes athletic competitions entered into by large numbers of contestants divided into teams. (5 hours practise, and theory). *I*; (2).

7. **Boxing.**—Fundamentals for class and individual work. Personal proficiency. (4 $\frac{1}{2}$  hours theory and practise for  $\frac{1}{2}$  semester). *I*; (1). Mr. PREHN

8. **Wrestling.**—Fundamentals for class and individual work. Personal proficiency. (4 $\frac{1}{2}$  hours theory and practise for  $\frac{1}{2}$  semester). *I*. (1). Mr. PREHN

9. **Elementary Orthopedics.**—Deformities, their causes, prevention, and treatment. Corrective gymnastics, theoretical, and practical consideration. *I*; (2).

*Prerequisite:* Athletic Coaching 12, 13, 14.

12. **General Physiology.**—Physiology of circulation, respiration, digestion, excretion, nerve, muscle, and special senses. *II*; (4).

*Prerequisite:* Athletic Coaching 13.

**13. Anatomy.**—Essentials as related to physical education. Study of the outline and relations of the various regions, systems and organs of the body. *I*; (3).

**14. Hygiene.**—A general consideration of the subject as applied to the individual, the home, school and community. *II*; (3).  
Dr. BEARD

**15. Playground Instruction.**—Philosophy of play; organization and equipment of the playground; play and games to meet the requirements of children of all ages; simple team, group, and competitive games, and folk dancing. (5 hours practise, and theory). *II*. (3).

*Prerequisite:* Athletic Coaching 6.

**16. Training and First Aid.**—Emergency treatment of common injuries. Theories of training, massage, and treatment of sprains, bruises, etc. *II*; (2).

Mr. BULLOCK

*Prerequisite:* Athletic Coaching 12, 13, and 14.

**17. Organization and Administration of Physical Education.**—Problems in organization and administration in physical education and athletics. Intercollegiate, intramural, and mass athletics. Sportsmanship and ethics. *I*; (3).  
Professor GRIFFITH

*Prerequisite:* 5 hours credit in Athletic Coaching.

**20. Field and Track Athletics.**—Instruction and practical demonstration in starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer and discus throwing. Practical talks on the methods of preparing contestants for different athletic events; adaptation to individual peculiarities; rules of competition; study of physical condition, including endurance, speed, and fatigue; the promotion, management, and officiating of games and meets. (10 hours practise and theory for  $\frac{1}{2}$  semester). *I*, (2).  
Mr. GILL

**21. Field and Track Athletics.**—Continuation of Athletic Coaching 20. (10 hours practise and theory for  $\frac{1}{2}$  semester). *II*, (2).  
Mr. GILL

*Prerequisite:* Athletic Coaching 20.

**30. Football.**—Practical and fundamental football taught in such a way that each student will become acquainted with all of the positions on the team. Special stress on punting, place kicking, drop kicking, goal kicking, kick-off, tackling, blocking, and interference. Offensive tactics predominate. (10 hours first half semester). *I*; (2).

Assistant Professor ZUPPKE, Mr. BEARG

**31. Football.**—Practical and fundamental football. The system taught by the various coaches. Defensive tactics predominate. The forward pass, trick plays, and the necessary defense to meet these plays. (10 hours first half semester). *I*; (2).

Assistant Professor ZUPPKE, Mr. BEARG

*Prerequisite:* Athletic Coaching 30.

**32. Football.**—The theory and art of coaching football. Study of the weaknesses and strong points of various styles of offense and defense used in different parts of the country. Special stress on generalship, signal system, scouting, and rules. The game will be studied from the coach's point of view. A lecture course. *II*; (2).

Assistant Professor ZUPPKE, Mr. BEARG

*Prerequisite:* Athletic Coaching 30, 31.

**40. Basketball.**—The fundamentals of the game, such as passing, goal throwing, dribbling, turns, stops, team play, and actual competition. (10 hours second half semester). *I*; (2).

Mr. WINTERS, Mr. BEARG

**41. Basketball.**—The game will be taken up from the coaching view-point. The theory of coaching, handling of men, different styles of offense and defense used by the leading coaches, and experience in coaching. (10 hours second half semester). *II*; (2).

Mr. WINTERS, Mr. BEARG

*Prerequisite:* Athletic Coaching 40.

**50. Baseball.**—Theory and practise in batting, fielding, base-running and pitching. Special attention to fundamentals; teamwork, coaching methods, study of the rules, physical condition, methods of indoor practise. (Theory and practise, 10 hours). *II*; (4).

Director HUFF, Mr. LUNDGREN

**60. Swimming.**—Elementary swimming and diving. Breast stroke, crawl stroke, back stroke, etc.; method of rescuing and resuscitation. (6 hours practise and theory). *II*; (2).

Mr. MANLEY

### B. PHYSICAL EDUCATION

**Ed. 50. Track and Field Coaching.**—Theory and practise of coaching track and field athletics. Intended to give instruction in coaching by means of practical coaching of the various intramural teams of the University, under competent supervision. (6 hours practise). *II*; (2).

Director HUFF

*Prerequisite:* Athletic Coaching 20 and 21.

**Ed. 50. Football Coaching.**—Organization and coaching of intramural teams of the University. Practical application of the first three year's work, supervised by an experienced coach. (12 hours practise first half semester). *I*. (2).

Director HUFF

*Prerequisite:* Athletic Coaching 30, 31, and 32.

**Ed. 50. Basketball Coaching.**—Instruction in coaching by means of coaching the intramural teams of the University, under competent supervision. (12 hours practise, second half semester). *I*. (2).

Director HUFF

*Prerequisite:* Athletic Coaching 40 and 41.

**Ed. 50. Baseball Coaching.**—Instruction by assigning students to act as coach of an intramural team of the University, under competent supervision. (6 hours practise). *II*; (2).

Director HUFF

*Prerequisite:* Athletic Coaching 50.

### Summer Session Courses

**S10. Baseball.**—Theory and practise in batting; base-running; proper methods of fielding each position; team work and coaching methods; study of the rules; physical condition; methods of indoor practise. Lectures and practical work. (1½).

Director HUFF

**S11. Track and Field Athletics.**—Instruction and practical demonstration in starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer and discus throwing, practical talks on methods of preparing contests for different athletics events; adaptations to individual peculiarities; rules of competition; study of physical condition, including endurance, speed fatigue, and all means of training for condition; work assigned for the promotion, management, and officiating of games and meets. Lectures and practical work. (1½).

Mr. GILL

**S12. Basketball.**—Instructions will be given in basketball with the idea of fitting men to coach. The course will cover passing, goal throwing, dribbling, team play, how to condition a team, and the different styles of play used by the leading coaches. Lectures and practical work. (1½).

Mr. WINTERS

**S13. Football.**—The theoretical work will take up the rules from the standpoint of coach, players, and officials; the several styles of offense and defense with consideration of their special strengths and weaknesses; generalship and strategy. The practical work will include: training, conditioning, and player's equipment; punting, drop kicking, place kicking, kick off, and forward passing; tackling dummy and charging sled; special drills for linemen, ends, and backs; following the ball, interference, and team work; fundamental plays, freak plays, and signal systems. Lectures and practical work. (1½).

Assistant Professor ZUPPKE

**S14. Training.**—Theories of training, massage, treatment of sprains, bruises, etc.; bandaging and first aid. Lectures and practical work. This course will be taken by all who take S10, S11, S12, or S13. (½).

Mr. BULLOCK

**S15. Calisthenics.**—Typical lessons for corrective and responsive work. Instruction will be given in free exercises. The course will cover the use of wands, Indian clubs, and dumb-bells.

(a) Practise and instruction by demonstration and command. Emphasis to be laid on progression and exactness of execution.

(b) Theoretical work. Practise teaching. (½).

Mr. SCHUETTNER

**S17. Elementary Gymnastics.**—Theory and practise in elementary exercises on mats, horse, horizontal bar, rings, and parallel bars. Accuracy of form and execution emphasized. The chief purpose is to teach a large variety of rapid mass work adapted to the average class. (½).

Mr. SCHUETTNER

**S20. Organization and Administration of Physical Education.**—Problems in organization and administration in physical education and athletics. Study of intercollegiate, intramural, and mass athletics. Sportsmanship and ethics. (1½).

Mr. GRIFFITH

**S21. Gymnastic Dancing.**—(a) Elements of steps, simple steps, and series of dancing steps to be given to classes in single file, pairs, and in open order. (b) Practise teaching and more advanced steps. (½).

Mr. SCHUETTNER

## BACTERIOLOGY

(A Division of the Department of BOTANY)

FRED WILBUR TANNER, Ph.D., *Assistant Professor*

LETHE ELEANORA MORRISON, A.B., *Assistant*

NOTE.—No major is offered for the present in bacteriology for undergraduates.

**2. Sanitary Science.**—Lectures, assigned readings, demonstrations, and recitations on the relation of bacteria, yeasts, and molds, to sanitation, agriculture, home economics, and communicable diseases. (For those who wish an insight into matters such as sterilization, disinfection, water and sewage treatment, food hygiene and poisoning, communicable diseases, federal, state, and local health authorities, etc.) (May not be counted for satisfaction of group requirements in the College of Liberal Arts and Sciences.) I; (2).

Assistant Professor TANNER

**5. Introductory Bacteriology.**—Morphology and physiology of bacteriology and related micro-organisms; technic of cultivation and observation. I or II; (5).

Assistant Professor TANNER and assistants

*Prerequisite:* Chemistry 2a.

**6. Bacteriology for Sanitary Engineers.**—Bacteriological and microscopical methods applied to the examination of water and sewage. Theories and methods of filtration, sterilization, and filter control. I; (2½).

Miss MORRISON

*Prerequisite:* Chemistry 10b.

### Courses for Advanced Undergraduates and Graduates

**8. Applied Bacteriology.**—Decay of organic matter in nature; soil and sewage bacteria; water bacteria; pathogenic bacteria. Essentially a course in food bacteriology. Laboratory; lectures; discussions; assigned readings and reports. *II*; (5).

Assistant Professor TANNER and assistants

*Prerequisite:* Junior standing; Bacteriology 5 or its equivalent; and the consent of the instructor.

**18a-18b. Journal Meeting.**—Required of all students who major in general bacteriology. *I, II*; (1). Assistant Professor TANNER

*Prerequisite:* Junior standing; Bacteriology 5.

**20. General Bacteriology.**—(For advanced undergraduate students, and graduate students who do not major in bacteriology.) Laboratory methods, technic of cultivation and observation and study of biochemical reactions. Laboratory; lectures; assigned readings; reports from Lafar's *Handbuch der technischen Mykologie*, and Kruse, *Allgemeine Mikrobiologie*. *I*; (5). Assistant Professor TANNER

*Prerequisite:* Two years of college chemistry; senior standing.

**26. Pathological Bacteriology.**—Cultural and morphological characteristics of disease-producing organisms. Theories of immunity and serum reactions. Routine diagnostic procedure. *I*; (3). Assistant Professor TANNER, Miss MORRISON

*Prerequisite:* Bacteriology 1 or 5; junior standing.

### Courses for Graduates

The work outlined below is open only to graduate students who have had at least one year's work in bacteriology and satisfactory training in chemistry.

**103. Physiology of Bacteria.**—Fermentation; growth and death of bacteria. Lectures; assigned readings and reports. *I*; (1 unit). Assistant Professor TANNER

**105. Classification of Bacteria.**—Variability of species; characters; mutations; life cycles; standard and biometrical classifications. *II*; (1 unit).

Assistant Professor TANNER

**107. Research in Bacteriology.**—This course is designed especially for students who are taking a major in bacteriology either for the doctor's degree or the master's degree. Thesis work may be taken in any of the fields in bacteriology indicated below. *Once a week; I, II; (½ to 4 units)*.

General Bacteriology.....	Assistant Professor TANNER
Dairy Bacteriology.....	Professor HARDING
Pathogenic Bacteriology.....	Assistant Professor TANNER
Plant Pathology.....	Professor STEVENS
Water and Sewage Bacteriology..	Associate Professor BUSWELL

### BANKING

(See ECONOMICS)

### BIOLOGY

(See BOTANY, ENTOMOLOGY, PHYSIOLOGY AND ZOOLOGY)

## BOTANY

(See also BACTERIOLOGY)

WILLIAM TRELEASE, D.Sc., LL.D., *Professor*  
 CHARLES FREDERICK HOTTES, Ph.D., *Professor*  
 FRANK LINCOLN STEVENS, Ph.D., *Professor*  
 WALTER BYRON MCDUGALL, Ph.D., *Assistant Professor*  
 FRED WILBUR TANNER, Ph.D., *Assistant Professor (Bacteriology)*  
 STELLA MARY HAGUE, Ph.D., *Instructor*  
 AARON RAYMOND KIENHOLZ, M.S., *Research Assistant*  
 CHARLEY LYMAN PORTER, B.S., A.B., *Assistant*  
 LETHE ELEANORA MORRISON, A.B., *Assistant (Bacteriology)*  
 FREDERICK FRANCIS WEINARD, A.M., *Assistant*  
 WALTER LEROY BLAIN, A.B., *Assistant*  
 PAUL JONES BYRD, A.B., *Assistant*  
 ORDA ALLEN PLUNKETT, A.B., *Assistant*  
 HOWARD CLINTON ABBOTT, B.S., *Assistant*  
 ALTA WELLS WEINARD, B.S., *Assistant*  
 RUTH ISOBEL DOWELL, A.B., *Assistant*  
 JOSEPH SHRIRO, B.S., *Graduate Assistant*  
 OLIVE ELIZABETH NUTTALL, *Student Assistant*

**Major:** 20 hours exclusive of Botany 1 and 4, preferably made up of courses grouped along one of six lines, according to the suggestions given below.

**Minor:** 20 hours chosen from chemistry, entomology (exclusive of 1a and 1b), geology, physics, physiology, and zoology, in consultation with the department of botany. At least eight hours must be offered in one subject.

Courses offered are of four types; the first intended to meet the needs of beginners; the second laying a foundation for methods of accuracy in observation, manipulation, and experimentation through the study of some fundamentally important subdivision of the science; the third giving practise in methods of investigation by the study of advanced problems varied to suit the needs and interests of the student; and the fourth teaching independent research by means of thesis subjects leading to the discovery of new facts or laws.

The work of any semester may be credited separately except when a problem is left incomplete in one of the courses open to graduates.

For the convenience of undergraduates in the College of Liberal Arts and Sciences who elect major work in botany the following combinations of courses are suggested:—(a) General; 2a, 4a, 23, 27a, and 27b; (b) Specializing in morphology; 2a, 2b, 3a, 4a or 24, and 29; (c) Specializing in pathology; 2a or 3a, 7a, 7b, 28a or 28b, 4a, or 17a-17b; (d) Specializing in physiology; 3a, 27a-27b, 9a or 9b; (e) Specializing in taxonomy; 2a, 4a, 16b, or 17a-17b, or 26, or 28a-28b; (f) Specializing in ecology; 4a, 23, 24, 25a-25b, and 27a.

Students taking botany as a foundation for agronomy or horticulture are advised to select courses 27a, 4a, 7a, and advanced work on some special topic or topics under courses 7b, 9, 17a-17b, or 22b. Students who expect to teach botany are advised to elect 2a, 4a, 23, 27a, and advanced work in one or more of the special courses 9a-9b, 16b, 17a-17b, or 25a-25b.

The prerequisite for major work in botany in the Graduate School is 20 semester hours in botany or 15 hours in botany plus 5 hours in zoology or entomology.

## Courses for Undergraduates

**1. General Botany.**—The structure, physiology, natural history, and uses of plants. Lectures, quiz, laboratory. *I* or *II*; (5).

Professor TRELEASE and Assistant Professor McDUGALL, and assistants

**2a. Morphology of Thallophytes and Bryophytes.**—Comparative laboratory study of types of the lower plants.

This and the following course are intended to give personal acquaintance with the vegetable kingdom through the study of living types selected so as to present in natural sequence the increasing complexity of structure and function which marks evolutionary development. *I*; (5).

Dr. HAGUE

*Prerequisite:* Botany 1.

**2b. Morphology of Cormophytes.**—Comparative laboratory study of selected types of the higher plants. *II*; (5).

Dr. HAGUE

*Prerequisite:* Botany 1.

**3a. Plant Anatomy, Histology, and Technic.**—The foundation of an exact knowledge of plant structure, especially of protoplasts and their parts and of the behavior and relations of the nucleus; the best methods of fixing, sectioning, staining, and examining tissues, modeling from serial sections, and photo-micrography. *II*; (5).

Professor HOTTES

*Prerequisite:* Botany 1.

**4. The Local Flora.**—Morphology, identification, and classification of wild plants. A laboratory and field course for students desiring personal acquaintance with the plants of Illinois, and especially for those qualifying as teachers in the public schools. *II*; (3).

Dr. HAGUE

*Prerequisite:* Entrance botany or its equivalent.

**4a. Taxonomy of Cormophytes.**—Structure, identification, and classification of higher plants. Laboratory studies chiefly of flowering plants. *II*; (3).

Professor TRELEASE

*Prerequisite:* Botany 1.

**4d. Trees and Shrubs of the Campus.**—The woody plants most used for decorative purposes. *I*; (3).

Professor TRELEASE

*Prerequisite:* Botany 1.

**7a<sup>1-2</sup>. Plant Pathology.**—Casual agents, symptoms, diagnosis, and treatment, *I, II*; (3).

Professor STEVENS

*Prerequisite:* Botany 1.

**23. Plant Ecology.**—The life of plants in their natural habitats, in relation to environment, to animals, and to each other. Lectures; laboratory; field work. *I*; (3).

Assistant Professor McDUGALL

*Prerequisite:* Botany 1.

**24. Taxonomy and Ecology of the Higher Fungi.**—Structure, identification, classification, and ecological relations. Special attention is given to edible and poisonous mushrooms. Lectures; laboratory; field work. *II*; (3).

Assistant Professor McDUGALL

*Prerequisite:* Botany 1.

**27a. Plant Physiology.**—The absorption of materials from the external world and their transformation within the organism; the production and use of food. *I*; (5).

Professor HOTTES

*Prerequisite:* Botany 1.

**27b. Plant Physiology.**—The response of the plant to external stimuli. *II*; (3).

Professor HOTTES

*Prerequisite:* Botany 1.

**30. Methods of Teaching.**—Participation in elementary laboratory instruction and in conferences of department staff; seminar. *I*; (2).

Professor TRELEASE and Assistant Professor McDUGALL

*Prerequisite:* 15 hours of botany; senior standing.

### Courses for Advanced Undergraduates and Graduates

Candidates for advanced degrees in botany must offer for admission to the graduate courses 20 hours of college work in botany or 15 hours in botany plus 5 hours in zoology or entomology.

Graduate students who elect botany for minor credit must meet the prerequisite for courses which they take for graduate credit.

**7b. Methods in the Study of Fungi.**—Methods of isolation, cultivation, and inoculation of fungi and bacteria. *II*; (5).

Professor STEVENS

*Prerequisite:* 10 hours of botany, including Botany 7a; junior standing.

**9a-9b. Plant Anatomy or Physiology.**—Problems for those specializing either in anatomy with technic, or in physiology, or in the application of these to plant breeding, crop production, and forestry. *I, II*; (3 to 5).<sup>1</sup>

Professor HOTTES

*Prerequisite:* 10 hours of botany, including Botany 27a or 27b; junior standing.

**[14a-14b. Heredity, Variation, Evolution.**—Cells and members of plants; adaptation and changes; mechanism of heredity; evolution. *I, II*; (2). Not given in 1920-21.

Professor HOTTES

*Prerequisite:* 10 hours of botany, including Botany 3a; junior standing].

**16a. Taxonomy and Morphology of Algae and Bryophytes.**—Advanced practise on selected groups. *II*; (3 to 5).<sup>1</sup>

Dr. HAGUE

*Prerequisite:* 10 hours of botany, including 2a or 4b; junior standing. For graduate students in chemistry, 5 hours of biology and 10 hours of physical science, including manipulation of instruments, or 15 hours of physical science.

**17a-17b. Taxonomy of Cormophytes.**—Advanced practise on selected taxonomic or economic groups; genera or families of Illinois plants, or plants economically important as weeds, forest resources, adjuncts to medicine, farm, orchard, or garden crops, or as the basis of floriculture, landscape architecture, street shading, or other decorative planting. *I, II*; (3 to 5).<sup>1</sup>

Professor TRELEASE

*Prerequisite:* 10 hours of botany, including 4a; junior standing.

**22a. Morbid Histology.**—The parasites of plant tissues and their histology in condition of disease. *I*; (3 to 5).<sup>1</sup>

Professor STEVENS

*Prerequisite:* Botany 3a and 7a; junior standing.

**22b. Groups of Fungi and Crop Disease.**—*II*; (3 to 5).<sup>1</sup>

Professor STEVENS

*Prerequisite:* 10 hours of botany, including 7a; junior standing.

**25a-25b. Plant Ecology.**—Advanced studies in the ecology of plants or of plant communities. *I, II*; (3 to 5).<sup>1</sup>

Assistant Professor McDUGALL

*Prerequisite:* Botany 23 and 27a; junior standing.

**28a-28b. Taxonomy of Economic Fungi.**—Advanced practise on selected groups of parasitic fungi. *I, II*; (3 to 5).<sup>1</sup>

Professor STEVENS

*Prerequisite:* 10 hours of botany, including 7a; junior standing.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not 2-5 but 2, or 3, or 4, or 5.



- 29a. Comparative Morphology of Pteridophytes, Gymnosperms, and Angiosperms—**  
**I; (3).** Dr. HAGUE  
*Prerequisite:* 10 hours of botany, including 7a; junior standing.

### Courses for Graduates

- 101. Individual Plant Development.**—The influence of external agents on the cell. Special subjects for investigation are assigned on consultation. Reports and discussions of current literature and research results. *I, II; ( $\frac{1}{2}$  to 2 units).* Professor HOTTES
- 102. Physiology.**—The effects of external stimuli on growth and movement. Special subjects for investigation are assigned on consultation. Reports and discussions of current literature and research results. *I, II; ( $\frac{1}{2}$  to 2 units).* Professor HOTTES
- 104. Mycology.**—Fungi. Individual assignments of subjects and problems in field and laboratory. *I, II; ( $\frac{1}{2}$  to 2 units).* Professor STEVENS
- 106. Plant Pathology.**—Diseases of plants, and disease agents. Special subjects are assigned upon consultation. *I, II; ( $\frac{1}{2}$  to 2 units).* Professor STEVENS
- [107. History of Botany.**—A conference course with lectures and reading. *I; ( $\frac{1}{2}$  unit).* Professor TRELEASE]
- 108. Taxonomy.**—Monographic studies of critical groups. *I, II; ( $\frac{1}{2}$  to 2 units).* Professor TRELEASE
- 109. Ecology.**—The interrelations of plants with their environment. Individual subjects for investigation. *I, II; ( $\frac{1}{2}$  to 2 units).* Assistant Professor McDUGALL
- 110. Current Botanical Literature.**—Weekly review. (Required of graduate students whose major is botany). *I, II; ( $\frac{1}{4}$  unit).* The Staff

### Summer Session Courses

(For description of courses, wholly or in part, see corresponding numbers in the description of courses in the regular session).

### Courses for Undergraduates

- S1. General Botany—(4).** Mr. PORTER  
**S7a. Plant Pathology.—(4).** Professor STEVENS, Mr. PORTER

### Courses for Advanced Undergraduates and Graduates

- S28a or b. Taxonomy of Economic Fungi.—(2-4).** Professor STEVENS

### Courses for Graduates

- S104. Research Work on Fungi.—( $\frac{1}{2}$  to 2 units).** Professor STEVENS  
**S106. Research Work on Plant Pathology.—( $\frac{1}{2}$  to 2 units).** Professor STEVENS

### ACCOUNTANCY

(See BUSINESS ORGANIZATION AND OPERATION)

### BUSINESS LAW

(See BUSINESS ORGANIZATION AND OPERATION)

**BUSINESS ORGANIZATION AND OPERATION**

(Including ACCOUNTANCY AND BUSINESS LAW)

HIRAM THOMPSON SCOVILL, A.B., C.P.A., *Professor*  
 LLOYD MOREY, A.B., C.P.A., *Assistant Professor*  
 EDWARD JOSEPH FILBEY, Ph.D., C.P.A., *Assistant Professor*  
 FREDERIC ARTHUR RUSSELL, Ph.D., *Assistant Professor*  
 ANANIAS CHARLES LITTLETON, A.M., C.P.A., *Assistant Professor*  
 RALPH STANLEY BAUER, A.M., J.D., *Associate*  
 ALTA GWINN SAUNDERS, A.M., *Instructor*  
 HENRY HEATON BAILY, Ph.B., C.P.A., *Instructor*  
 CHARLES F SCHLATTER, B.S., *Instructor*  
 LEO G HARRIS, A.B., *Instructor*  
 WEEMS VINTON SNIDER, A.B., *Instructor*  
 BLAINE THOMAS DAVIDSON, LL.B., *Instructor*  
 EDWARD WILLIAM DOLCH, A.M., *Assistant*  
 FRANK HERMAN BEACH, A.B., *Assistant*  
 WILLIAM HENRY COBB, B.S., *Assistant*  
 FRANK WARREN CLIPPINGER, A.M., *Assistant*  
 PAUL CANADAY TAYLOR, B.S., *Assistant*  
 ROBERT JOHN HIMMELRIGHT, A.B., *Assistant*  
 DAVID WENDELL CRABB, A.B., *Assistant*  
 EDWARD JULIUS LAMPERTZ, B.S., *Assistant*  
 ERASMUS IMMANUEL FJELD, B.S., *Assistant*  
 MAURICE W EVANS,<sup>1</sup> B.S., *Assistant*

**A. ACCOUNTANCY****Courses for Undergraduates**

**1a-1b. Principles of Accounting.**—Accounting and bookkeeping; double entry; fundamental accounts and books. *Students who present one unit of bookkeeping for entrance will not be allowed credit for 1a and should register in 1b.* Except in case of such students, credit is not given for either 1a or 1b separately. *I, II; (3).*

Mr. BAILY, Assistant Professor FILBEY, Mr. HARRIS, Mr. SNIDER, and assistants

**2a-2b. Advanced Accounting.**—Fundamentals of cost accounting, theory of partnership and corporation accounts, depreciation, goodwill, reserves, and sinking funds; special financial statements, reading balance sheets, illustrative problems. *I, II; (3).*

Assistant Professor FILBEY, Assistant Professor LITTLETON, Mr. BAILY, and assistants

*Prerequisite:* Accountancy 1a-1b; Economics 7 or 26, 22 or 27; registration or credit in Economics 1.

**11. Farm Accounting.**—The principles of accounting and distribution of costs as applied to farm operations; proper investment of funds. *I or II; (4).*

Professor SCOVILL, Mr. SCHLATTER

*Prerequisite:* Open only to students in agriculture who have had Economics 1 or 2.

**Courses for Advanced Undergraduates and Graduates**

**3a-3b. Advanced Accounting and Auditing.**—Consolidated balance sheets; liquidation; the auditor's duties; schedules and reports. *I, II; (3).*

Professor SCOVILL, Assistant Professor FILBEY, Assistant Professor LITTLETON

*Prerequisite:* Accountancy 2a-2b; Economics 3; an average of "C" or better in Accountancy 1 and 2.

<sup>1</sup>Second semester.

**4a-4b. Cost Accounting and Systems.**—First Semester: (a) Cost accounting applied to factory procedure, overhead expense, the installation and control of cost systems, presentation of cost data; (b) as a basis for manufacturing efficiency; (c) the construction of cost system. Second Semester: Systems of various specialized businesses as banks, building and loan associations, insurance companies, brokers and the several types of public utility corporations. The work of either semester may be taken separately. *I, II; (2).*

Professor SCOVILL, Assistant Professor LITTLETON

*Prerequisite:* Accountancy 2a-2b; Economics 3.

**5a-5b. C. P. A. Problems.**—Representative problems of various types, including questions on theory and auditing. *I, II; (3).*

Professor SCOVILL

*Prerequisite:* Accountancy 3a-3b.

**13a-13b. Governmental Accounting.**—Accounts and systems of institutions and municipalities, and of the State and Federal governments. Organization; procedure; budget, accounts and records, reports, audits; purchasing and storekeeping; training for Federal service. *I, II; (2).*

Assistant Professor MOREY

*Prerequisite:* Accountancy 2a-2b.

**20. Income Tax Procedure.**—Application of the requirements of the Federal income, excess-profits and war-profits taxes. *II; (2).*

Assistant Professor FILBEY

*Prerequisite:* Registration or credit in Accountancy 3b; senior standing.

### Summer Session Courses

**S1b. Principles of Accounting.**—(3).

Assistant Professor LITTLETON

*Equivalent:* 1b.

*Prerequisite:* Accountancy 1a or one unit entrance credit in bookkeeping.

**S2a-2b. Advanced Accounting.**—(6).

Assistant Professor FILBEY

*Equivalent:* 2a-2b.

*Prerequisite:* Accountancy 1a-1b; Economics 26 and 22; registration or credit in Economics 1.

**S15. Teacher's Course in Bookkeeping.**—Methods of approach in teaching; conduct of laboratory work; explanation of difficult transactions; logical development and treatment of form of organization on efficiency; gradation and interrelation of divisions and specialized books and records, inventories and financial statements. Lectures on different systems in use. General philosophy of accounts. (2)

Assistant Professor LITTLETON

*Prerequisite:* A knowledge of elementary bookkeeping.

## B. BUSINESS ORGANIZATION AND OPERATION

### Courses for Undergraduates

**1. Business Organization and Operation.**—Individual proprietorship, partnership, and corporation; the process of organizing a business; organization for operation and the reaction of form of organization on efficiency; gradation and interrelation of divisions and departments; departmental responsibility and authority, routine, and discipline. *I or II; (3).*

Assistant Professor RUSSELL, Mr. SCHIATTER

*Prerequisite:* Economics, and Accountancy 1a-1b.

**[2. Organization and Control of Mercantile Distribution.**—Problems of organization and management of wholesale and retail establishments. Supervision and control of mercantile distribution by business associations, by consumers, and by political units. *I; (2).* Not given in 1920-21.

*Prerequisite:* Business Organization and Operation 1].

**7. Salesmanship.**—Policies and practise of modern sales organizations; selling problems of manufacturers, wholesalers, and retailers, management of salesman; the practise of individual salesmen. *I*; (2). Assistant Professor RUSSELL

*Prerequisite:* Economics 1; Business Organization and Operation 1.

**8. Advertising.**—Principles of current practise; cooperation of advertising and personal selling; special problems; planning sales campaigns; choice of media; space buying; and practise in writing copy. *II*; (2). Assistant Professor RUSSELL

*Prerequisite:* Business Organization and Operation 7.

**[10. Newspaper Advertising.**—Designed primarily for students specializing in journalism. Organization and operation of newspaper advertising department; methods of obtaining and handling advertising; the newspaper as an advertising medium. *II*; (3). Not given in 1920–21.

*Prerequisite:* Journalism 1 and 2[.

For Business Correspondence see Rhetoric 10.

Mrs. SAUNDERS, Mr. DOLCH, Mr. CLIPPINGER

**30. Typography and Printing** (1) Introduction to History; (2) Type; (3) Paper; (4) Ink; (5) Processes; (6) Machinery and utensils; (7) Format.

*Prerequisite:* Junior standing in the curriculum for commercial and civic secretaries or the consent of the instructor. *I*; (1). Director CUNNINGHAM

### Summer Session

**S19. Selling and Advertising.**—Sales organizations and advertising methods. Not to be counted toward a degree in commerce. (2). Assistant Professor RUSSELL

*Prerequisite:* Open to high-school teachers.

## C. BUSINESS LAW

### Courses for Undergraduates

**1a-1b. Commercial Law.**—Principles underlying the law of contracts, negotiable instruments, agency, partnerships, business corporations, sales of personal property bailments and carriers, guaranty and suretyship, and insurance. *I, II*; (3).

Dr. BAUER, Mr. DAVIDSON

*Prerequisite:* Sixty hours of university credit, including Economics 1 and Accountancy 1a-1b.

**2. Elementary Law.**—Contracts; leases; property. Open only to students in agriculture who have credit in Economics 1 or 2. *1 or II*; (3). Dr. BAUER

## CERAMIC ENGINEERING

EDWARD WIGHT WASHBURN, Ph.D., *Professor, Ceramic Chemistry, Head of the Department*

CULLEN WARNER PARMELEE, B.S., *Professor*

RALPH KENT HURSH, B.S., *Assistant Professor*

ELMER NEWMAN BUNTING, Ph.D., *Research Associate*

EARL EMANUEL LIBMAN, M.S., *Assistant*

ENOCH GEORGE BOURNE, *Laboratory Demonstrator and Potter*

The courses offered by the department of ceramic engineering are designed to give a technical knowledge of the composition and properties of materials used in the manufacture of claywares, cements, glasses, and enamels, and to acquaint the student with the construction, equipment, and operation of ceramic plants.

Graduates of courses other than ceramic engineering who have the necessary prerequisites may take the following courses for minor credit: 3, 5, 6, 8, 10, 13, 15, 16, 19, and 20.

Courses for Undergraduates

1. **Ceramic Materials.**—The properties of clays and other ceramic materials; the identification of the varieties met in practical work. Lectures; laboratory. *I*; (3).  
Professor PARMELEE, Mr. LIBMAN  
*Prerequisite:* Chemistry 4.
2. **Winning and Preparation of Clays.**—Machinery and processes used in preparing clay for market or manufacture; comparative costs of the different methods. *I*; (3).  
Assistant Professor HURSH  
*Prerequisite:* Registration in Ceramic Engineering 1.
3. **Industrial Calculations.**—Chemical and physical calculations applying to the operation of furnaces, kilns, and dryers, temperature measurements. *II*; (3).  
Assistant Professor HURSH  
*Prerequisite:* Ceramic Engineering 1, 2; Physics 1a-1b and 3a-3b.
- 4c. **Drying and Burning.**—The chemical and physical processes involved and types of equipment used in drying and burning ceramic products. *I*; (5).  
Assistant Professor HURSH  
*Prerequisite:* Ceramic Engineering 1, 2, 3.
5. **Ceramic Bodies.**—Composition and properties of ceramic body mixtures; effects of various ingredients; development of special bodies. Lectures; laboratory. *II*; (5).  
Professor PARMELEE, Mr. LIBMAN  
*Prerequisite:* Ceramic Engineering 1, 2.
6. **Glazes.**—The various classes of glazes and enamels; the composition, limits, properties, and defects. Lectures; laboratory. *I*; (6).  
Professor PARMELEE, Mr. LIBMAN  
*Prerequisite:* Ceramic Engineering 3, 5.
8. **Glass Technology.**—The chemistry and physics of the silicate glasses and their preparation. Industrial methods. Lectures, assigned reading, discussion. *II*; (2).  
Professor WASHBURN  
*Prerequisite:* Chemistry 31 or Ceramic Engineering 17.
9. **Ceramic Construction.**—Plans, specifications, and estimates for ceramic equipment and industrial plants. *II*; (4).  
Assistant Professor HURSH  
*Prerequisite:* General Engineering Drawing 2; Ceramic Engineering 3, 4.
10. **Cements.**—Cements, limes, plasters; composition, reactions; methods of manufacture and testing. *I*; (3).  
Assistant Professor HURSH  
*Prerequisite:* Ceramic Engineering 1, 2, 3.
11. **Thesis.**—*II*; (3 to 5).  
Professor WASHBURN, Professor PARMELEE, Assistant Professor HURSH
12. **Designing and Shaping.**—Die construction; templates; master and working molds for pressing, casting, and jigging. *II*; (3).  
Professor PARMELEE, Assistant Professor HURSH  
*Prerequisite:* Ceramic Engineering 1, 2.
- [13. **Ceramic Laboratory.**—The preparation of silicate cements and the study of their properties. *II*; (3). Not given in 1920-21.  
Assistant Professor HURSH  
*Prerequisite:* Ceramic Engineering 10.]

**15. Glass Laboratory.**—Soda-lime, potash-lime, lead, barium, and zinc silicates; boro-silicates; properties of fused and solidified glasses; practical glass problems. *II*; (3). Not given in 1920-21. Professor WASHBURN

*Prerequisite:* Ceramic Engineering 6; registration in Ceramic Engineering 8.]

**16. Enamels.**—The various types of enamels, their composition, application, properties and testing. Lectures, laboratory. *II*; (3). Professor PARMELEE

*Prerequisite:* Ceramic Engineering 6.

**17. Physical Chemistry and its Applications to Ceramic Materials and Processes.**—Lectures; discussions; assigned reading. *I*; (4). Professor WASHBURN

*Prerequisite:* Ceramic Engineering 3, or equivalent; Mathematics 8 or 7 and 9. Chemistry 3a or 4.

**19. Special Bodies.**—An intensive study of body preparation, the composition, preparation, properties, uses and testing of selected types of bodies. Lectures; laboratory. *II*; (3). Not given in 1920-21. Professor PARMELEE

*Prerequisite:* Ceramic Engineering 5.]

**20. Refractory Materials.**—The properties and uses of refractory materials employed in the industries; relation between refractory power, chemical composition and physical condition; changes undergone by refractory materials at high temperatures. The subject will be presented as far as possible from the standpoint of the Phase Rule. Lectures, discussions, assigned reading. *II*; (2). Not given in 1920-21. Professor WASHBURN

*Prerequisite:* Ceramic Engineering 17 or Chemistry 31.]

**99. Inspection Trip.**—Visits to industrial plants representative of various phases of ceramic work. *I*; (no credit).

*Prerequisite:* Senior standing.

### Courses for Graduates

Graduate work leading to the degrees of Master of Science and Doctor of Philosophy in either chemistry (ceramic chemistry) or engineering (ceramic engineering) is offered by the department. Students who have specialized in chemistry, chemical engineering, or ceramic engineering during their undergraduate work will ordinarily be qualified to enter on graduate work leading to higher degrees in ceramic chemistry, while students who have specialized in mechanical engineering, ceramic engineering, or chemical engineering in their undergraduate work will ordinarily be qualified to pursue graduate work leading to the higher degrees in ceramic engineering. Graduate students who wish to elect ceramic chemistry as their major field of study must have had the equivalent of twenty-five semester hours in chemistry and this must include satisfactory courses in general chemistry, qualitative and quantitative analysis, and either physical or organic chemistry. Such students must also have had at least one year of college physics and a training in mathematics which includes calculus.

Candidates for the degree of Doctor of Philosophy with their major field of study in ceramic chemistry must fulfill the general requirements in chemistry as candidates in other branches of chemistry. They will also be expected to offer physical chemistry as one of their minor subjects. Before receiving the degree of Doctor of Philosophy, all such candidates must demonstrate their ability to read French and German literature in their major subject.

**101. The Chemistry of the Compounds of Silicon.**—Seminar. *Twice a week. I, II;* ( $\frac{3}{4}$  unit). Professor WASHBURN

*Prerequisite:* Elementary courses in organic and physical chemistry.

**102. General Technology of the Clay Industries.**—An advanced course dealing with the physical properties of ceramic materials and products in the light of their dependence upon chemical composition, mineralogical constitution, and physical condition. Lectures, seminar and laboratory. *I, II; (1 to 2 units).* Professor PARMELEE

*Prerequisite:* The elements of mineralogy and of physical chemistry.

**103. Silicon Chemistry.**—A laboratory course to supplement Ceramic Engineering 101, which must precede or accompany it. *II; (1 to 2 units).* Professor WASHBURN

**105. Technology of Glass.**—Glassy silicates; limiting composition; physical and chemical properties of glasses and the dependence of these properties upon composition. Lectures and laboratory. *(1 to 2 units).* Professor PARMELEE

### CHEMISTRY

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor and Director*

SAMUEL WILSON PARR, M.S., *Professor*

ROGER ADAMS, Ph.D., *Professor*

HOWARD BISHOP LEWIS, Ph.D., *Associate Professor*

B SMITH HOPKINS, Ph.D., *Associate Professor*

GEORGE DENTON BEAL, Ph.D., *Associate Professor*

ARTHUR M BUSWELL, Ph.D., *Associate Professor, Chief of State Water Survey*

JOHN HENRY REEDY, Ph.D., *Assistant Professor*

SILAS ALONZO BRALEY, Ph.D., *Assistant Professor*

THOMAS ERNEST LAYNG, Ph.D., *Assistant Professor*

WILLIS SUMNER PUTNAM, Ph.D., *Assistant Professor*

DUANE TAYLOR ENGLIS, Ph.D., *Associate*

GERHARD DIETRICHSON, Ph.D., *Associate*

ROSALIE MARY PARR, Ph.D., *Associate*

HARRY CLEVELAND KREMERS, Ph.D., *Associate*

CARL SHIPP MARVEL, Ph.D., *Instructor*

ADOLPH WILLIAM HENRY,<sup>1</sup> B.S., *Instructor*

GEORGE HOPKINS COLEMAN, M.S., *Research Assistant*

CARL CLARENCE LARSON, B.S., *Research Assistant*

GAIL PHILLIPS EDWARDS, B.S., *Research Assistant*

MARION EMELINE SPARKS, A.M., B.L.S., *Assistant in charge of Chemical Library*

PAUL ANDERS, *Assistant, Glass Blowing*

OTIS AVERY BARNES, M.S., *Assistant*

DORTHA BESSIE BAILEY, M.S., *Assistant*

LUCIE EMMA ROOT, A.M., *Assistant*

DELLA D JUNKIN, A.B., *Assistant*

MANSON JAMES BRADLEY, A.M., *Assistant*

JOHN ABERDEEN GUNTON, A.M., *Assistant*

OTTO ERSKINE HUNTLEY, A.B., *Assistant*

WILLIAM COURTNEY WILSON, M.S., *Assistant*

EARL AGARD ENGLE, A.M., *Assistant*

ROBERT EDMAN GREENFIELD, A.M., *Assistant*

CHARLES HEMAN PEET, A.B., *Assistant*

WALDO BRIGGS BURNETT, A.B., *Assistant*

FLORA MARION LOUGEE, A.B., *Assistant*

ERROL BATHURST MIDDLETON, A.B., *Assistant*

KEITH EMANUEL SPARKS, B.S., *Assistant*

<sup>1</sup>Second semester.

FRANK HOWARD DRIGGS, A.B., *Assistant*  
 LOTHAR HOMER BREDE, B.S., *Assistant*  
 JEAN CHARLOTTE SHEPHARD, A.B., *Assistant*  
 WILSON DAVIS LANGLEY, M.S., *Assistant*  
 PHILIP KELSEY PORTER, A.B., *Assistant*  
 RALPH FRED SCHNEIDER, M.S., *Assistant*  
 GEORGE ROCKWELL BARNETT, B.S., *Assistant*  
 THOMAS ADAM WILSON, A.B., *Assistant*  
 EMIL EDWARD DREGER, B.S., *Assistant*  
 EDWARD OSCAR NORTH, B.S., *Assistant*  
 ELIZABETH C HYDE, A.B., *Assistant*  
 CLIFFORD FRED RASSWEILER, A.B., *Assistant*  
 WENDELL HORACE GRIFFITH, M.S., *Assistant*  
 JOE EUGENE MOOSE, A.B., *Assistant*  
 AMOS JAMES PARKHURST, JR.<sup>1</sup>, B.S., *Assistant*  
 HOWARD MARION CHILES, M.S., *Graduate Assistant*  
 ADAM ARTHUR CHRISTMAN, M.S., *Graduate Assistant*  
 ARTHUR WILLIAM INGERSOLL, M.S., *Graduate Assistant*  
 ISAAC HAHN GODLOVE,<sup>1</sup> A.M., *Graduate Assistant*  
 PAUL MEADE GINNINGS, M.S., *Graduate Assistant*  
 HARRY LOUIS LOCHTE, A.B., *Graduate Assistant*  
 CHARLOTTE FAY BROWN,<sup>1</sup> B.S., *Graduate Assistant*  
 WALLACE HUME CAROTHERS, B.S., *Graduate Assistant*  
 MIRIAM GERTRUDE BUCK, A.B., *Graduate Assistant*  
 VERNON BOSMAN, A.M., *Graduate Assistant*  
 RALPH LESTER HORST, A.B., *Graduate Assistant*  
 IRWIN ALVIN KOTEN, A.B., *Graduate Assistant*  
 WILLARD LYLE FINLEY, B.S., *Graduate Assistant*  
 RUDOLPH STOKES NELSON, B.S., *Graduate Assistant*  
 JOHN WENDELL ANDREWS, B.S., *Graduate Assistant*  
 LOTTIE ELLA MUNN, A.B., *Graduate Assistant*  
 JOHN STANTON PIERCE, B.S., *Graduate Assistant*  
 ROGER GREENLEAF STEVENS, B.S., *Graduate Assistant*  
 JOHN BLACKWELL DAVIS, B.S., *Graduate Assistant*  
 GEORGE WILLIAM CUPIT, JR., B.S., *Graduate Assistant*  
 FLOYD B HOBART, B.S., *Graduate Assistant*  
 MARY ELIZABETH BELL, B.S., *Graduate Assistant*  
 GEORGE HENRY CHENEY, B.S., *Graduate Assistant*  
 JACOB NEVYAS, A.B., *Graduate Assistant*  
 CHARLES WILLIAM RODEWALD, B.S., *Graduate Assistant*  
 MAYOR FARTHING FOGLER, B.S., *Graduate Assistant*  
*Cooperating:*  
 HARRY SANDS GRINDLEY, D.Sc., *Professor, Animal Nutrition*  
 EDWARD WIGHT WASHBURN, Ph.D., *Professor, Ceramic Chemistry*  
 ERNEST AITKINS WILDMAN, M.S., *Associate (Summer Session)*

**Major:** 20 hours, exclusive of Chemistry 1, 1a, 1b, 4, and 16, and inclusive of courses in quantitative analysis and organic chemistry.

**Minors:** 20 hours, chosen from bacteriology, botany, geology, mathematics, philosophy, physiology, physics, and zoology.

<sup>1</sup>First semester.



Students taking chemistry at the University are advised to give at least one year to the subject, and this should include Chemistry 1 or 1a, 2a or 3a. Those continuing in the second year should take Chemistry 5a and 5b, or 13a and 25. In the third year Chemistry 14a, 14b, 14c and 14d or 9 and 9a, 31, and 33 should be taken. With these, more special courses may be taken if desired, but students are not advised to take the special courses unless they have had the fundamental work represented by the selection given above. Students who desire a training for professional work in chemistry, either as teachers or in its industrial applications, should take the curriculum in chemistry, or in chemical engineering.

Students who find it impossible to take more than one semester's work are requested to register in Chemistry 1 or 1a in the second semester rather than in the first.

**1. Inorganic Chemistry.**—The non-metallic elements. *I* or *II*; (5).

Associate Professor HOPKINS in charge

Professor NOYES, Dr. ROSALIE PARR, Dr. ENGLIS, Dr. KREMERS, and assistants

*Prerequisite:* One unit of entrance credit in physics, or  $2\frac{1}{2}$  units entrance credit in mathematics or registration in Mathematics 2 or 3.

**NOTE:**—Students who have received entrance credit for high-school chemistry are given only 3 hours credit for Chemistry 1.

**1a. Inorganic Chemistry.**—Lectures; recitations; laboratory. For students who have had one year of high-school chemistry. *I* or *II*; (3).

Associate Professor HOPKINS in charge

Professor NOYES, Dr. ENGLIS, Dr. ROSALIE PARR, Dr. KREMERS, and assistants

*Prerequisite:* One unit of entrance credit in chemistry.

**NOTE:**—Students whose preparation proves to be inadequate for continuing this course will be required to change their registration to Chemistry 1. Students who have not used their high-school chemistry for entrance may, upon petition, receive 5 hours credit for Chemistry 1a. Students who have failed in Chemistry 1 are permitted to register for Chemistry 1a and will receive 5 hours credit, on petition, if their final grade is C or above.

**1b. Inorganic Chemistry.**—Lectures; recitations; laboratory. (For students in engineering.) *I* or *II*; (4).

Associate Professor HOPKINS in charge

Professor NOYES, Dr. ENGLIS, Dr. ROSALIE PARR, Dr. KREMERS, and assistants

**NOTE:**—Students who have credit for high-school chemistry should register for Chemistry 1a.

**2a. Inorganic Chemistry and Qualitative Analysis.**—Chemistry and qualitative analysis of the more common metals and inorganic compounds. Lectures; recitations; laboratory. *I* or *II*; (5).

Associate Professor HOPKINS, Assistant Professor REEDY, Dr. ENGLIS, Dr. ROSALIE PARR, Dr. KREMERS, and assistants.

*Prerequisite:* Chemistry 1 or 1a.

**3a. Inorganic Chemistry and Qualitative Analysis.**—For students in chemistry and chemical engineering. *II*; (5).

Associate Professor HOPKINS, Assistant Professor REEDY, Dr. ENGLIS, Dr. ROSALIE PARR, Dr. KREMERS, and assistants.

*Prerequisite:* Chemistry 1 or 1a.

**4. Qualitative Analysis and Chemistry of the Metallic Elements.**—Lectures; class and laboratory work. (For students in engineering.) *II*; (4).

Associate Professor HOPKINS, Assistant Professor REEDY, Dr. ENGLIS, Dr. ROSALIE PARR, Dr. KREMERS, and assistants.

*Prerequisite:* Chemistry 1a or 1b.

**5a. Elementary Quantitative Analysis.**—Gravimetric and volumetric analysis; stoichiometrical relations and the application of the fundamental laws of chemistry to quantitative analysis. Lectures; recitations; laboratory. *I* or *II*; (5).

Associate Professor BEAL in charge, Assistant Professor BRALEY, and assistants

*Prerequisite:* Chemistry 2a, or 3a, or 4.

**5b. Quantitative Analysis.**—(Continuation of Chemistry 5a). Analysis of silicates, ores, and alloys; advanced qualitative analysis. Lectures; recitations; laboratory. *II*; (5). Associate Professor BEAL in charge, Assistant Professor BRALEY, and assistants

*Prerequisite:* Chemistry 5a.

**61. Chemical Technology.**—Technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes; trade journals. Lectures; recitations. *II*; (3). Assistant Professor PUTNAM

*Prerequisite:* Chemistry 5a and 14a.

**71. Metallurgy.**—General metallurgy; metallurgy of iron and steel. Lectures; assigned reading; recitations. *I*; (3). Assistant Professor PUTNAM

*Prerequisite:* Chemistry 5a. (Senior students in engineering courses may be admitted to this course by special arrangement, without this prerequisite).

**7a. Metallurgy of the Non-Ferrous Metals.**—Copper, lead, zinc, gold, and silver. *II*; (3). Assistant Professor PUTNAM

*Prerequisite:* Chemistry 7.

**9. Elementary Organic Chemistry.**—Important compounds of carbon. *II*; (3).

Professor ADAMS

*Prerequisite:* Chemistry 2a or 3a.

**9c. Elementary Organic Chemistry.**—(Laboratory to accompany Chemistry 9). *II*; (2). Professor ADAMS and assistants

*Prerequisite:* Chemistry 2a or 3a; registration in Chemistry 9.

**10a. Water Chemistry.**—History, sources, contamination, and standards of purity of potable waters and waters for industrial purposes. Lectures; practise in analytical methods. *II*; (3). Associate Professor BUSWELL, Mr. GREENFIELD

*Prerequisite:* Chemistry 5a or 13a.

**10b. Chemistry of Water and Sewage.**—The chemical analysis of potable waters and waters for industrial purposes. Lectures on the history, sources, contamination, and standards of purity. Chemical analysis of sewage and effluents from sewage treatment plants, for students in sanitary engineering, registered in connection with Civil Engineering 53. *I*; (2½). Associate Professor BUSWELL, Mr. GREENFIELD

*Prerequisite:* Chemistry 4.

**11a-11b. Thesis.**—Thesis, embodying a review of the literature of the subject, account of work done in the laboratory. The subject should be determined upon and reading begun in the junior year. A minimum of five semester hours is required. (Required of seniors in chemistry and chemical engineering). *I, II*; (3 to 5).<sup>2</sup>

Professor NOYES in charge

**13a. Elementary Quantitative Analysis.**—Gravimetric and volumetric analysis, fertilizer and milk analysis. Lectures; recitations; laboratory. (For students in agriculture). *I* or *II*; (5). Assistant Professor BRALEY and assistants

*Prerequisite:* Chemistry 2a or 3a.

<sup>1</sup>Certain required inspection trips will be arranged in connection with courses 6 and 7. Students registered in these courses should take into consideration the expense involved, which will not exceed \$15.00 for each course.

<sup>2</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e.g., not 2-5, but 2, or 3, or 4, or 5.

**[13b. Advanced Agricultural Analysis.**—Special methods in agricultural analysis; theory of the determinations; preparation of solutions; sampling; calculations. *II*; (5). Not given in 1920–21. Associate Professor BEAL

*Prerequisite:* Chemistry 5a or 13a].

**14a-14b. Organic Chemistry.**—Lectures; recitations. *I, II*; (3).

Professor NOYES

*Prerequisite:* Chemistry 5a; should be accompanied by Chemistry 14c and 14d.

**14c. Organic Chemistry (Laboratory Work).**—Organic synthesis. *I or II*; (2).

Dr. MARVEL and assistants

*Prerequisite:* Registration in Chemistry 14a, or equivalent.

**14d. Organic Chemistry (Laboratory Work).**—Organic synthesis, quantitative and qualitative analysis. Continuation of Chemistry 14c, to accompany Chemistry 14b. *I or II*; (2).

Dr. MARVEL and assistants

*Prerequisite:* Chemistry 14a, 14c; registration in Chemistry 14b, or equivalent.

**15. Physiological Chemistry.**—Enzymes; carbohydrates; salivary digestion; gastric digestion; fats; pancreatic digestion; intestinal digestion; bile; putrefaction products; feces; blood; milk; epithelial and connective tissues; muscular tissue; nervous tissue; urine. Qualitative and quantitative work on gastric juice, blood, urine, and milk; the clinical aspects of these topics treated thoroly for prospective students of medicine. Lectures; demonstrations; conferences; practical work; assigned reading. (Open to graduates and undergraduates). *I*; (5).

Associate Professor LEWIS and assistants

*Prerequisite:* Chemistry 5a or 13a; 9 or 14a-14b.

**15a. Problems of Metabolism.**—Variations of metabolism in health and disease; chemistry of the ductless glands; chemical methods of diagnosis; micro-analysis of blood, tissues, and urine. Lectures; conferences; laboratory. *II*; (3).

Associate Professor LEWIS and assistants

*Prerequisite:* Chemistry 15.

**16. Fuel, Gas, and Water Analysis for Engineers.**—The proximate analysis of coal; determination of calorific value; technical analysis of furnace gases; examination of boiler waters; lubricating oils. (For students in engineering). *II*; (3).

Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 4; junior standing.

**17. Teachers' Course.**—Methods of teaching elementary chemistry. *II*; (1).

Associate Professor HOPKINS

*Prerequisite:* 13 hours of chemistry and senior standing.

**21. Qualitative Organic Analysis.**—Identification of pure organic compounds and mixtures. *I*; (3).

Dr. MARVEL and assistants

*Prerequisite:* Chemistry 14c, 14d.

**25. Food Analysis.**—Quantitative organic analysis, with special reference to the examination of food products; alcohols, carbohydrates, fats, and oils, cereals, nitrogenous bodies, preservatives, and colors. *I*; (5).

Associate Professor BEAL and assistant

*Prerequisite:* Chemistry 5a or 13a; 9 or 14a-14b.

**26. Pharmaceutical Chemistry.**—The analytical chemistry of medicinal substances, with a discussion of the common types of pharmaceutical preparations. *II*; (3).

Associate Professor BEAL and assistant

*Prerequisite:* Chemistry 14a-14b.

**27. Qualitative Analysis of the Rarer Elements.**—The rarer elements and their compounds; identification and separation of the elements; formation, solubilities, and chemical reactions of their salts. Lectures and laboratory. *I*; (3).

Associate Professor HOPKINS, Dr. PARR

*Prerequisite:* Two years' work in chemistry.

**28. Advanced Qualitative Analysis.**—Methods of separation; qualitative reagents; theory of reactions. Designed especially for those intending to teach qualitative chemistry. Lectures and seminar. *II*; (2).

Assistant Professor REEDY

*Prerequisite:* Senior standing and Chemistry 31, or graduate standing.

**31. Elementary Physical Chemistry.**—The more important principles of physical chemistry. The purpose of this course is to give the experimental basis for a proper appreciation of physical chemistry. Lectures, problems. *II*; (2). Dr. DIETRICHSON

*Prerequisite:* Chemistry 5a, 5b; Physics 1a-1b, or 7a-7b; Mathematics 7 or 8.

**33. Elementary Physical Chemistry.**—A laboratory course to accompany Chemistry 31. *II*; (2). Dr. DIETRICHSON

*Prerequisite:* Chemistry 1, 2a or 3a, 5a, 5b; Physics 1a-1b, or 7a-7b; Mathematics 7 or 8.

**34. Physical and Electro-chemistry.**—The theoretical principles of physical and electrochemistry and their applications; including the mass law, the phase rule, thermochemistry, surface tension, colloids, catalysis, electrolytic and electrothermal processes, photochemistry. Lectures; problems. *I*; *II*; (2). Professor.....

*Prerequisite:* Chemistry 31, 33.

**35. Electrochemistry.**—Electrochemical reactions. Technical applications, including electric furnace processes. *I*; (3). Dr. DIETRICHSON

*Prerequisite:* Chemistry 31, 33.

**[45. Chemical Calculations.**—Interpretation of general chemical data involving the use of tables, slide rules, graphs, etc. Solution of typical chemical problems, primarily analytical and industrial. Lectures; recitations; problems. *I*; (1). Not given in 1920–21.

*Prerequisite:* Sophomore standing; the consent of the instructor.]

**46. Chemistry of Plant Products.**—The occurrence of organic compounds in plants and their relation to plant nutrition. Lectures and laboratory. *II*; (2). Dr. ENGLIS

*Prerequisite:* Chemistry 9 and 9c, or 14a and 14c.

**47. Physical Methods in Inorganic Problems.**—Selected topics involving the application of the methods of Physical Chemistry. Recitations; assigned readings. *I*; (2).

Assistant Professor REEDY

**61. Industrial Chemical Laboratory.**—The preparation and purification of chemical products from raw materials on a scale sufficient to afford data for determining the economy of the processes employed. (Should be accompanied by either Chemistry 6 or 109). *II*; (3). Assistant Professor PUTNAM

*Prerequisite:* Chemistry 5a and 14a.

**65. Fuels and Flue Gases.**—Fuel inspection; gas analysis; determination of calorific values; calculation of efficiencies. *I*; (2). Dr. LAYNG

*Prerequisite:* Chemistry 5a.

**66. Gas Engineering.**—Gas machinery; ovens and appliances for carbonization; recovery of by-products. *II*; (1). Professor PARR

*Prerequisite:* Chemistry 65; registration in 66a is advised.

**66a. Control Processes in Gas Manufacture.**—Standardization methods and inspection. *II*; (1). Professor PARR

**69. Metallurgical Laboratory and Assaying.**—The fire assay of gold, silver, lead, and copper ores, mattes, and bullion; special experiments illustrating the underlying metallurgical principles; fluxes, slags, and charge calculations; practise in the use of coal, oil, and gas furnaces, and in the measurement of high temperatures. *I*; (2).

Assistant Professor PUTNAM

*Prerequisite:* Chemistry 5a; Geology 20.

**72. Paints, Oils, Turpentine, Varnishes, and Protective Coverings for Wood and Metals.**—Lectures and laboratory. *I*; (2). Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 5a and 14a-14b.

**73. Asphalt, Tar, and Distillation Products.**—Sources, characteristics, composition, and examination; binders and dust preventives used in road construction. (For students in highway engineering). *II*; (2). Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 2a or 4.

**76. Mineral Oils.**—Fractionation, analysis, evaluation for fuel, lubrication and gas manufacture. *II*; (2). Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 9a and 14a.

**77. Composition and Classification of Coal.**—Classification, changes in composition, weathering, spontaneous combustion, formation of mine gases. Lectures; assigned reading. *II*; (1). Professor PARR

*Prerequisite:* Chemistry 65.

**78. Metallography.**—Constitution and microstructure of metals and alloys and the relations between their properties, chemical and mechanical treatment, and structure. Lectures; reading; laboratory. *II*; (2). Assistant Professor PUTNAM

*Prerequisite:* Chemistry 7.

**80. Elements of Gas Blowing.**—A laboratory course in the construction and repair of glass apparatus. *II*; (1). Mr. ANDERS

*Prerequisite:* Two years' work in chemistry.

**[86. Chemistry of the Higher Order Compounds.**—Complex compounds from the standpoint of the Valence Theory as developed by Werner. *II*; (2). Not given in 1920-21.

*Prerequisite:* Chemistry 9a, 9b, 14a-14b.]

**[90-91. Chemical Inspection Trips.**—Required for juniors and seniors in the courses in chemistry and chemical engineering. For the year 1919-20 the trips took place on March 29 to April 3, 1920. The expense involved will approximate fifteen to twenty-five dollars for each student. *II*; (no credit). Not given in 1920-21].

**92a-92b. Chemical Literature and Reference Work.**—Periods, leaders, journals. Required of juniors in chemistry and chemical engineering; required also of juniors who are majoring in chemistry. *I, II*; (1). Miss SPARKS

**93a-93b. Journal Meeting.**—Required of seniors and all graduate students in chemistry. All members of the staff of the department of chemistry are expected to attend. *I, II*; (1). Assistant Professor BRALEY

**95. History of Chemistry.**—Lectures and assigned reading. *I*; (2)

Professor NOYES

## Courses for Graduates

Graduate students whose major subject is in some department other than chemistry, before taking graduate work for credit in this department, must have had the equivalent of 15 university credits in chemistry, and the ground covered should include satisfactory work in general chemistry and in qualitative and quantitative analysis. Such students are advised to make selections from the following courses: Chemistry 31, 33 (or 102, 102a), 14a, 14b, 14c, 14d, 15, and 25. Courses of a more special nature will not, as a rule, be accepted for graduate work unless preceded by one of the above courses.

Graduate students who are candidates for an advanced degree in chemistry must have had the equivalent of 25 university credits in chemistry, properly distributed.

For students in chemistry, 5a, 13a, 9, and 9c will not be accepted for graduate credit, and 14a-14b, 14c, 14d, 31, and 33 will be accepted only from students entering the Graduate School with the equivalent of 30 university credits in chemistry.

**101. Theories of Chemistry.**—Seminar. Origin and development of the principal theories of the science. *Once a week. II; ( $\frac{1}{4}$  unit).* Professor NOYES

**102. Advanced Physical Chemistry.**—This course, with 102a, covers a period of two years. Either course may be taken first. Kinetic molecular methods; kinetic theory of gases; entropy and probability; the quantum theory; the molecular structure of liquids and solids; the electron theory. Lectures; seminar. *I, II; ( $\frac{3}{4}$  unit).*

*Prerequisite:* Chemistry 1, 2a or 3a; Physics 1a-1b, 3a-3b; Mathematics 8a or 7 and 9. An elementary knowledge of organic and physical chemistry is desirable.

**[102a. Advanced Electrochemistry.**—Modern theories of solution; thermodynamics; transformations of chemical and electrical energy. *Three times a week. I; ( $\frac{3}{4}$  unit).* Not given in 1920-21.

*Prerequisite:* Chemistry 35].

**[102e. Physical Chemistry Seminar.**—A review of current literature in physical chemistry. *Once a week; I, II; ( $\frac{1}{4}$  unit).* Not given in 1920-21].

**103. Advanced Inorganic Chemistry.**—Descriptive inorganic chemistry; the rarer elements; the periodic system. Lectures and recitations, with or without laboratory. *Two to five times a week; I, II; ( $\frac{1}{2}$  to  $1\frac{1}{4}$  units).* Associate Professor HOPKINS

**103a. Advanced Analytical Chemistry.**—Special topics. Lectures, with or without laboratory. *One to five times a week; II; ( $\frac{1}{2}$  to  $1\frac{1}{4}$  units).*

Assistant Professor BRALEY

*Prerequisite:* Chemistry 5b, 9a, 9b, 14a-14b, 31, 33.

**103b. Special Topics in Analytical Chemistry.**—Required of all students taking a major or minor in analytical chemistry. Seminar. *I, II; ( $\frac{1}{2}$  unit).*

Associate Professor BEAL, Assistant Professor BRALEY

*Prerequisite:* Chemistry 9a, 9b, 14a-14b

**103c. Special Topics in Inorganic Chemistry.**—Seminar; rare earths. *I, II; ( $\frac{1}{4}$  unit).* Associate Professor HOPKINS

**104. Advanced Organic Chemistry.**—Geometric isomerism; optical isomerism; tautomerism; mechanisms of important reactions; etc. *I; ( $\frac{3}{4}$  unit).* Professor ADAMS

**[104a. Advanced Organic Chemistry.**—(Special topics). Carbohydrates, proteins, ureides, alkaloids, terpenes, relationship between color and constitution, physiological properties and chemical constitution, trivalent carbon, bivalent carbon. *II; ( $\frac{3}{4}$  unit).* Not given in 1920-21. Professor ADAMS]

**104b. Advanced Quantitative Organic Chemistry.**—Proteins, alkaloids, glucosides, volatile oils, and other constituents of animal and vegetable tissues. Plant analysis. Toxicological analysis. The general methods, chemical and physical, of organic analysis. Lectures and seminar. May be accompanied by laboratory work on a selected group of compounds. *Twice a week; I, II; ( $\frac{3}{4}$  unit;  $1\frac{1}{4}$  unit with laboratory).*

Associate Professor BEAL

**104c. Organic Chemistry.**—Seminar.—A view of the current literature in organic chemistry. *Once every week; I, II; ( $\frac{1}{4}$  unit).*

Professor ADAMS

**104d. Advanced Organic Chemistry.**—A study of the general reactions in organic chemistry and their scope. *Twice a week; II; ( $\frac{3}{4}$  unit).*

Professor ADAMS

[**104e. Advanced Organic Chemistry.**—Chiefly laboratory work. The study and development of methods which are suitable for large scale production. *I to II; (1 unit).* Not given in 1920-21.]

Professor ADAMS]

**105. Advanced Physiological Chemistry.**—A more detailed study of the structure and distribution of the proteins. The chemistry of intermediary metabolism and of the glands of internal secretion. Lectures; demonstrations; assigned readings; discussions. *Twice a week; II; ( $\frac{3}{4}$  unit).*

Associate Professor LEWIS

**105a. Advanced Physiological Chemistry.**—The more difficult biochemical preparations; the use of analytical methods. Lecture and laboratory. *One to five times a week; II; ( $\frac{3}{4}$  unit).*

Associate Professor LEWIS

**105b-105c. Advanced Physiological Chemistry.**—Seminar. A consideration of some phases of the recent development of physiological chemistry. *Two hours a week; I, II; ( $\frac{1}{2}$  unit).*

Associate Professor LEWIS

**106. Animal Chemistry (Animal Nutrition).**—Recent advances in the chemistry of nutrition of the lower animals; the chemistry of the functional products; the flesh, fat, milk, and wool of the more common domesticated animals. Lectures; conferences; assigned reading; laboratory. *Five times a week; I, II; (1 to  $1\frac{1}{2}$  units).*

Professor GRINDLEY

*Prerequisite:* Two years' work in chemistry.

**107. Special Problems in Technology of Fuels.**—*I; ( $\frac{1}{2}$  unit).*

Professor PARR

*Prerequisite:* Chemistry 77.

**107a. Fuel Technology.**—Fuel types: solid, liquid, and gaseous; sources, output, prospective supply, and industrial interrelations; conservation and combustion problems. *One to two times a week; I; ( $\frac{1}{4}$  to  $\frac{1}{2}$  unit).* (Alternately with 107).

Professor PARR

**107b. Special Topics in Gas Engineering.**—Carbonization processes; by-product constituents and recovery. *One or two times a week; I, II; ( $\frac{1}{4}$  to  $\frac{1}{2}$  unit).*

Professor PARR

**108. Advanced Metallography.**—Selected alloy systems; correlation of constitution and properties. *Twice a week; I; ( $\frac{3}{4}$  unit).*

Assistant Professor PUTNAM

*Prerequisite:* Chemistry 7 and 78 or equivalent.

**109. Advanced Industrial Chemistry.**—Seminar. Some of the more important chemical industries; the development and chemical control of processes. *Twice a week; I, II; ( $\frac{3}{4}$  unit).*

Professor PARR

**110. Water Supplies.**—An advanced course in the chemistry of water and sewage. The sources of contamination of water supplies and the purification of water for potable or technical use. *One to five times a week; I, II; ( $\frac{1}{2}$  to  $1\frac{1}{4}$  units).*

Associate Professor BUSWELL

**111. Research.**—A thesis is usually required of students taking the Master's degree and is always required of students taking the degree of Doctor of Philosophy. (For a description of undergraduate work leading to a thesis, see Chemistry 11.) *I, II; Work may be taken in the following subjects:*

PHYSICAL AND ELECTROCHEMISTRY	Assistant Professor REEDY
INORGANIC CHEMISTRY	Associate Professor HOPKINS, Assistant Professor REEDY
ANALYTICAL CHEMISTRY	Associate Professor BEAL, Assistant Professor BRALEY
FOOD CHEMISTRY	Associate Professor BEAL
ORGANIC CHEMISTRY	Professors NOYES, ADAMS
WATER CHEMISTRY	Associate Professor BUSWELL
ANIMAL CHEMISTRY (Animal Nutrition)	Professor GRINDLEY
PHYSIOLOGICAL CHEMISTRY	Associate Professor LEWIS
INDUSTRIAL CHEMISTRY	Professor PARR, Assistant Professor LAYNG
CERAMIC CHEMISTRY	Professor WASHBURN

#### Summer Session Courses

Note.—All of the courses in chemistry in the Summer Session are equivalent to the courses of the same numbers given during the academic year, and have the same prerequisites.

#### Courses for Undergraduates

##### S1. Elementary Chemistry.

Associate Professor HOPKINS, Dr. ENGLIS, Dr. R. M. PARR

##### S1a. Inorganic Chemistry.

Associate Professor HOPKINS, Dr. ENGLIS, Dr. R. M. PARR

##### S1b. Inorganic Chemistry.—For engineering students.

Associate Professor HOPKINS, Dr. ENGLIS

##### S2a. Inorganic Chemistry and Qualitative Analysis.

Assistant Professor REEDY, Dr. R. M. PARR

##### S3a. Inorganic Chemistry and Qualitative Analysis.

Assistant Professor REEDY, Dr. R. M. PARR

##### S5a. Elementary Quantitative Analysis.

Associate Professor BEAL, Dr. BRALEY

##### S5b. Quantitative Analysis.

Associate Professor BEAL, Dr. BRALEY

##### S13a. Agricultural Analysis.

Associate Professor BEAL, Dr. BRALEY

#### Courses for Undergraduates and Graduates

By suitable selection of courses through four consecutive summers it will be possible for persons attending the Summer Session to meet the requirements for the Master's degree, with the exception of the completion of a course in physical chemistry.

##### S14a. Elementary Organic Chemistry.

Professor ADAMS

##### S14b. Organic Chemistry (second course).

Professor ADAMS, Mr. BARNES

##### S14c. Organic Chemistry (elementary laboratory).

Mr. WILDMAN, Mr. BARNES

##### S14d. Organic Chemistry (advanced laboratory).

Professor ADAMS, Mr. WILDMAN



S15. Physiological Chemistry.	Associate Professor LEWIS
S15a. Problems of Metabolism.	Associate Professor LEWIS
S17. Teachers' Course.	Associate Professor HOPKINS
S21. Qualitative Organic Analysis.	Mr. WILDMAN
S25. Food Analysis.	Associate Professor BEAL
S27. Qualitative Analysis of the Rarer Elements.	Associate Professor HOPKINS
S65. Technical Gas and Fuel Analysis.	Dr. LAYNG
S92. Chemical Literature and Reference Work.	Miss SPARKS
S104e. Advanced Organic Chemistry.—Chiefly laboratory work. The study and development of methods which are suitable for large scale production. (Limited to ten students in 1920-21). (1 unit).	
	Professor ADAMS
S105a. Advanced Physiological Chemistry.—The more difficult biochemical preparations; the use of analytical methods. Lecture and laboratory. One to five times a week. ( $\frac{1}{2}$ unit).	
	Associate Professor LEWIS
S11 and S111. Research.	
INORGANIC CHEMISTRY	Associate Professor HOPKINS
ANALYTICAL CHEMISTRY	Associate Professor BEAL
PHYSIOLOGICAL CHEMISTRY	Associate Professor LEWIS
ORGANIC CHEMISTRY	Professor ADAMS
INDUSTRIAL CHEMISTRY	Professor PARR, Dr. LAYNG

## CIVIL ENGINEERING

IRA OSBORN BAKER, C.E., D.Eng., *Professor and Acting Head of the Department*  
 CHARLES ALTON ELLIS, A.B., *Professor of Structural Engineering*  
 WILBUR M WILSON, M.M.E., C.E., *Associate Professor of Structural Engineering*  
 JAMES ELMO SMITH, C.E., *Assistant Professor*  
 CARROLL CARSON WILEY, C.E., *Assistant Professor of Highway Engineering*  
 GEORGE WELLINGTON PICKELS, B.C.E., C.E., *Assistant Professor of Drainage Engineering*  
 WILLIAM HORACE RAYNER, C.E., M.S., *Assistant Professor of Surveying*  
 EDWARD EZRA BAUER, B.S., *Instructor in Highway Engineering*  
 CRAIG POTTER HAZELET, B.S., *Instructor in Structural Engineering*  
 CHAUNCEY BROCKWAY SCHMELTZER, M.S., *Assistant in Surveying*  
 JOHN RUSSELL STUBBINS, *Student Assistant in Surveying*  
*Co-operating:*  
 EVERETT EDGAR KING, M.S., C.E., M.C.E., *Railroad Surveying*

## Courses for Undergraduates

27. Plane Surveying.—The theory, use and adjustment of the compass, transit, and level; the computation of areas and volumes and the partitioning of land; map construction, the United States land survey methods, reestablishment of corners and boundaries, and interpretation of deeds; farm and city surveying; elements of topographic surveying. Problems with the tape, compass, transit, and level. I; (3).

Assistant Professor PICKELS, Assistant Professor RAYNER, Mr. SCHMELTZER, Mr. STUBBINS.

*Prerequisite:* General Engineering Drawing 1, 2; Mathematics 4.

**28. Higher Surveying.**—The theory and use of the transit and plane-table in making topographic surveys; methods; topographic surveying. *II*; (3).

Assistant Professor PICKELS, Assistant Professor RAYNER, Mr. SCHMELTZER, Mr. STUBBINS.

*Prerequisite:* Civil Engineering 27; Physics 1a, 3a, and registration in Physics 1b, 3b.

**31. Plane Surveying.**—(For students in landscape gardening). Determination of horizontal distances by pacing, taping, and stadia; determination of vertical distances by use of engineers' level; measurement of horizontal and vertical angles with transit; adjustment of instruments; methods used and accuracy necessary in making various kinds of surveys; setting slope stakes; cross-sectioning; construction and use of profiles; mapping. *I*; (3).

Assistant Professor PICKELS

*Prerequisite:* Mathematics 4; Architecture 31, 32.

**32. Topographic Surveying.**—(For students in landscape gardening). The stadia; topographic signs; contour construction; grading and drainage; advanced plane-table; earth-work computations; use of planimeter; establishing grades; each student prepares a large scale topographic map of a portion of the campus. *II*; (3).

Assistant Professor PICKELS

*Prerequisite:* Civil Engineering 31.

**[38. Map Reading and Military Sketching.**—(For engineering students who have not taken surveying.) Use and construction of topographic maps; representation of relief; conventional signs; contour construction; profiles, visibility of lines and areas; construction of military maps in the field; road, outpost, and position sketches; sketch board, clinometer, range finder, aneroid barometer. *II*; (1). Not given in 1920-21.

Assistant Professor RAYNER

*Prerequisite:* Sophomore standing in engineering.]

**51. Railroad Surveying.**—Economic location, construction, and maintenance of railways; curves, turnouts, and earth works; preliminary and location surveys. Each student makes a complete set of maps, profiles, and estimates. *I*; (5).

Assistant Professor SMITH, Professor KING, Mr. BAUER

*Prerequisite:* Civil Engineering 27, 28.

**52. Roads and Pavements.**—Road and street location and drainage; construction and maintenance of earth, gravel, macadam, concrete, brick and bituminous roads and pavements; comparison of different types; pavement accessories. *II*; (3).

Assistant Professor WILEY, Mr. BAUER

*Prerequisite:* Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 27, 28, 51.

**53. Railroad Surveying.**—First eleven weeks of course 51, for juniors in municipal and sanitary engineering. *I*; (3).

Assistant Professor SMITH, Professor KING, Mr. BAUER

*Prerequisite:* Civil Engineering 27, 28.

**57. Hydrology.**—Occurrence and distribution of precipitation; evaporation from land and water surfaces; transpiration; deep seepage; run-off; hydraulics of rivers and small streams; use of current meter, float, weir, etc., for measuring velocity and discharge; and the modification of stream flow by storage for municipal, irrigation, navigation, flood-prevention and power purposes. *I*; (2).

Assistant Professor PICKELS

*Prerequisite:* Civil Engineering 27, 28.

**58. Graphic Statics.**—(For students in mining engineering.)—Determination of stresses in roof trusses and mine structures. *II*; (2).

Assistant Professor SMITH

*Prerequisite:* Theoretical and Applied Mechanics 20, 25.

**60. Structural Stresses.**—The determination of stresses in roofs, bridges, and steel-skeleton buildings, by algebraic and graphic processes. *II*; (4).

Professor ELLIS, Mr. SCHMELTZER

*Prerequisite:* Mathematics 2, 4, 6; Theoretical and Applied Mechanics 20, 21, 29; General Engineering Drawing 1, 2.

**62. Structural Details.**—Design of details for roofs, bridges, and steel-frame buildings; detail drawings and shop bills. *II*; (2).

Mr. HAZELET

*Prerequisite:* Registration in Civil Engineering 60.

**70. Seminar.**—Preparation, reading, and discussion of papers on engineering topics. Each student presents one major and two minor papers on assigned topics, and participates in the discussion of papers by others. *II*; (1).

Assistant Professor RAYNER

*Prerequisite:* Junior standing in civil engineering.

**76. Surveying.**—(For ceramic engineering students.) Plane and topographic surveying; adjustment and use of the transit, level, and plane-table; areas and volumes; map and profile construction; land surveying; contours; differential and profile leveling. *II*; (2).

Assistant Professor SMITH

*Prerequisite:* Mathematics 4; General Engineering Drawing 1, 2; Physics 1a-1b, 3a-3b.

**77. Masonry Construction.**—Discussion of the materials of masonry construction, stone, brick, lime, cement; making, using, and testing of plain concrete; and laying of brick and stone masonry, cost and strength; foundations of buildings and bridges; masonry structures, bridge piers and abutments, retaining walls, box and arch culverts, voussoir and elastic arches. *I*; (4).

Professor BAKER

*Prerequisite:* Theoretical and Applied Mechanics 20, 21, 29, 10; Civil Engineering 60.

**78. Drainage Engineering.**—The present status and importance of the drainage problem; the effect of drainage on public health; the economics of drainage; the legal procedure in the formation of drainage districts; methods of levying assessments for benefits; surveys and maps of drainage areas; reports on drainage projects; the design, construction, maintenance, and cost of drainage systems; flood protection; channel improvement; design, construction, and maintenance of levees; pumping requirements for levee districts. *II*; (3).

Assistant Professor PICKELS

*Prerequisite:* Civil Engineering 57.

**79. Cement Laboratory Practise.**—Standard tests for hydraulic cement and concrete aggregate. *I*; (1).

Assistant Professor WILEY

*Prerequisite:* Theoretical and Applied Mechanics 20, 21, 29; senior standing.

**80. Engineering Contracts and Specifications.**—Engineering relations, the law of contracts; general and technical clauses used in engineering specifications. Engineering ethics. The relation of the engineer to industrial, financial, and governmental problems. *II*; (2).

Professor BAKER

*Prerequisite:* Senior standing in engineering.

**81. Theory of Reinforced Concrete.**—Reinforced concrete beams, slabs, and columns. *I*; (2).

Professor ELLIS

*Prerequisite:* Senior standing in engineering.

**82. Reinforced Concrete Design.**—Plain and reinforced concrete structures; design of retaining wall, girder, and slab bridge; and elastic arch. *II*; (4).

Associate Professor WILSON

*Prerequisite:* Civil Engineering 81.

**83. Steel Bridge Design.**—A portion of course 85, for railway civil engineers. *I*; (3).

Associate Professor WILSON, Mr. HAZELET

*Prerequisite:* Civil Engineering 60, 62.

**[84. Engineering Functions.**—Relation of the engineer to his employer, private, corporate, or public; responsibility of the engineer as inspector, designer, supervisor of labor, agent, or arbitrator; functions in valuation proceedings, in investigations, etc. *II*; (2). Not given in 1920-21.

*Prerequisite:* Senior standing.]

**85. Bridge Design.**—Determination of types and lengths of spans; stresses and sections of a plate girder and a truss span; stress sheet, general design drawings; and estimate of weights. *I*; (5).

Associate Professor WILSON, Mr. HAZELET

*Prerequisite:* Civil Engineering 60, 62.

**86. Public Service Engineering.**—The engineer in public employment; organization of work under city, county, state, and federal administration; public improvements; methods of financing; preparing plans and considering the public welfare, including bridges, parks, recreation grounds, city planning, etc. *II*; (3).

Assistant Professor SMITH

*Prerequisite:* Senior standing.

**87. Advanced Bridge Analysis.**—Continuous, draw, cantilever, and metal-arch bridges. *I*; (2).

Professor ELLIS

*Prerequisite:* Civil Engineering 60, 62; registration in Civil Engineering 83 or 85.

**[89. Hydro-Economics.**—The occurrence of water in nature; its conservation, regulation, and use for power and in industries; irrigation, drainage, transportation, domestic supply; the legal title to the use of water. *I*; (2). Not given in 1920-21.

*Prerequisite:* Senior standing.]

**93. Highway Design.**—Township, county, and state road systems; city streets; choice of pavement types; principles of design, preparation of plans, specifications, and estimates of cost. *I*; (3).

Assistant Professor WILEY

*Prerequisite:* Civil Engineering 52; Theoretical and Applied Mechanics 21, 29.

**94. Highway Administration.**—The relation of road and street improvement to social and economic welfare; governmental units and forms as related to roads and streets; state, county, and city highway departments; highway and local improvement laws; traffic regulations; taxation and methods of financing country roads and city pavements. *II*; (3).

Assistant Professor WILEY

*Prerequisite:* Senior standing in civil engineering.

**95. Plain Concrete.**—Standard tests for Portland cement; origin, preparation and characteristics of different aggregates; field and laboratory examination and tests; theories of proportioning; effect of impurities, quantity of water, and methods of handling and curing. Laboratory practise. *I*; (2).

Assistant Professor WILEY

*Prerequisite:* Senior standing in engineering.

**96. Road Materials.**—Origin, preparation, and characteristics of road-building materials; examination and tests of both bituminous and non-bituminous materials; interpretation of results; specifications; inspection. Laboratory practise. *II* (2).

Assistant Professor WILEY, Mr. BAUER

*Prerequisite:* Civil Engineering 52, 95. Students who expect to take Civil Engineering 96 are urged to take Geology 43 or its equivalent in the junior year.

**97-98. Thesis.**—A problem in investigation or design, subject to the approval of the head of the department. Only students of high standing are permitted to take a thesis. *I; (1): II; (2 or 3).*<sup>1</sup>

*Prerequisite:* Senior standing in civil engineering.

**99. Inspection Trip.**—A three days' trip to study various industries and engineering projects including industrial plants, bridges, pavements, railways, and buildings, usually in and about Chicago. *I; (no credit).*

*Prerequisite:* Senior standing in civil engineering.

### Courses for Graduates

Entrance on graduate work in civil engineering presupposes the full undergraduate course in that subject.

**[101. Irrigation and Drainage.**—The survey, examination, construction, maintenance, and operation of works for irrigation and drainage of agricultural lands; water rights; and reconstruction problems. *Twice a week; I, II; (½ unit).* *Time to be arranged.* Not given in 1920-21.]

**103. Highway Construction.**—Machinery and methods of handling materials. Contractors' organization and official control. *Twice a week; I, II; (1 unit).* *Time to be arranged.* Professor BAKER

**106. Reinforced Concrete Design.**—Elastic theory of arches. *Twice a week; I, II; (1 unit or more).* *Time to be arranged.* Professor ELLIS

**107. Bridge Engineering.**—Deflections; the statically indeterminate frame; swing bridges and arches; special graphic methods; suspension bridges; secondary stresses; impact. *Two or three times a week; I, II; (1 unit or more).* *Time to be arranged.*

Professor ELLIS

**124. Steel Building Construction.**—Steel framing of fire-proof office buildings, hotels, and industrial buildings; wind bracing; eccentrically loaded columns; analysis of special details; erection methods and costs. *Twice a week; I, II; (1 unit or more).* *Time to be arranged.*

Professor WILSON

### THE CLASSICS

HERBERT JEWETT BARTON, A.M., *Professor, Chairman*

CHARLES MELVILLE MOSS, Ph.D., *Professor Emeritus*

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor*

ARTHUR STANLEY PEASE, Ph.D., *Professor*

HOWARD VERNON CANTER, Ph.D., *Professor*

#### GREEK

**Major:** 20 hours, excluding Greek 1a-1b.

**Minors:** 20 hours chosen from foreign languages (Latin being especially recommended), English literature, history, and philosophy.

#### LATIN

**Major:** 20 hours, excluding Latin 20.

**Minors:** 20 hours chosen from foreign languages (Greek being especially recommended), English literature, history, and philosophy.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not 2-5, but 2, or 3, or 4, or 5.

## CLASSICS

**Major:** 20 hours in Greek and Latin, excluding Greek 1a-1b, 16 and 20, and Latin 13, 19, and 20. At least six hours shall be carried in the secondary language and the remaining hours in the primary language.

**Minors:** 20 hours chosen from foreign languages, English literature, history, and philosophy.

## GREEK

## Courses for Undergraduates

The courses in translation naturally follow each other in the following sequence: 1a-1b, 3, 5 or 7, 6 or 8. Courses 1a-1b, 3, and 4 are intended for students who cannot present Greek for entrance to the University, but who desire to commence the study of the language. Course 2a-2b may be taken after course 1a-1b. Course 16 is open to sophomores, juniors, and seniors; 20 is open to those who have completed one year in history or classics.

**1a-1b. Grammar and Reader.**—First semester: Attic forms; reading of simple prose. Second semester: Xenophon's *Anabasis*, Book 1. *I, II*; (4).

Professor OLDFATHER

**2a-2b. New Testament Greek.**—Reading of selections and lectures on the canon and text. *I, II*; (2).

Professor CANTER

*Prerequisite:* Greek 1a-1b or an equivalent.

**3. Second Year Greek.**—Xenophon's *Anabasis*, Books II-IV; grammatical drill. *I*; (3).

Professor PEASE

*Prerequisite:* Greek 1a-1b.

**4. Second Year Greek.**—Homer, six Books of the *Iliad*. *II*; (3).

Professor OLDFATHER

*Prerequisite:* Greek 3.

## Courses for Advanced Undergraduates and Graduates

**7. Greek Drama.**—Three plays from the great dramatists. *I*; (3).

Professor PEASE

*Prerequisite:* Greek 4.

**8. Plato.**—Selected dialogues. *II*; (3).

Professor PEASE

*Prerequisite:* Greek 4.

## GREEK LIFE AND HISTORY

Course 16 presupposes no knowledge of Greek and is open to all students except freshmen.

**16. The Life of the Ancient Greeks.**—Lectures illustrated by photographs and slides; prescribed readings. *I*; (1).

**20. Greek History.**—(This course is described by the department of history as History 5). *I*; (3).

Professor OLDFATHER

*Prerequisite:* One course in history or the classics. Not open to freshmen.

**54. Comparative Literature.**—See English 54.

## Courses for Graduates

104. **Homer and the Homeric Question.**—Lectures and readings. *I*; (1 unit).

Professor OLDFATHER

110. **Bibliography and Criticism.**—(Thesis course; the same as Latin 110). Once a week; *I, II*; (1 unit).

Professors OLDFATHER, PEASE, and others

## LATIN

- 2a-2b. **Livy, Plautus, and Terence.**—First semester: Selections from Livy, the story of Hannibal. Second semester: The *Rudens* and the *Captive* of Plautus and the *Phormio* of Terence. *I, II*; (4).

Professor BARTON

*Prerequisite:* Three entrance units in Latin.

3. **Sallust and Cicero.**—Selections from the *Jugurthine War*; *De Senectute*. *I*; (3)

*Prerequisite:* Latin 2a-2b.

Professor CANTER

4. **Horace and Catullus.**—Selections. *II*; (3).

*Prerequisite:* Latin 2a-2b.

Professor CANTER

- 5b. **Latin Composition.**—Grammatical drill and practise in the simpler forms of expression. *II*; (1).

Professor CANTER

*Prerequisite:* One course in Latin.

## Courses for Advanced Undergraduates and Graduates

7. **Horace and Juvenal.**—Selections from the Satires and Epistles of Horace; selected Satires of Juvenal. *II*; (3).

Professor PEASE

*Prerequisite:* 12 hours of Latin.

14. **Seneca.**—Selections from his Letters; the Daughters of Troy. *I*; (3).

Professor BARTON

*Prerequisite:* 12 hours of Latin.

## HISTORY

## Roman Life and History in English

(Course 13 presupposes no knowledge of Latin; open to all students except freshmen).

13. **Roman Life.**—The family, organization of society, education, marriage, amusements, with some attention to the monuments. Lectures and assigned readings illustrated by photographs and slides. *II*; (1).

Professor BARTON

19. **Roman History.**—(This course is described by the department of history as History 6.) Not open to freshmen. *II*; (3).

Professor OLDFATHER

20. **Classical Mythology.**—Lectures and assigned readings. *I*; (2).

Professor BARTON

9. **Teachers' Course.**—The purpose and methods of preparatory Latin instruction; the teacher's preparation. *II*; (2).

Professor BARTON

*Prerequisite:* 18 hours of Latin. A portion of this requirement may be waived in the case of those who have taught Latin.

10. **Latin Composition.**—The leading principles; imitation of assigned models. *I*; (2).

Professor BARTON

*Prerequisite:* 12 hours of Latin, including Latin 5b or equivalent.

## Courses for Graduates

Students desiring to take graduate work in Latin should have had at least three years of college Latin in addition to the Latin presented to meet entrance requirements.

101. Latin Epigram.—*Twice a week; I; (1 unit).* Professor CANTER
103. Cicero.—*De Natura Deorum* and *De Divinatione*. *Twice a week; II; (1 unit).* Professor PEASE
104. Latin Paleography.—*Twice a week. I.* Professor PEASE
106. Terence.—*Twice a week. II; (1 unit).* Professor OLDFATHER
108. Tacitus.—*The Histories*. *Twice a week. II; (1 unit).* Professor BARTON
109. Vergil.—*Twice a week. I; (1 unit).* Professor PEASE
110. Bibliography and Criticism.—(Thesis course; the same as Greek 110). *Once a week. I, II; (1 unit)* Professors OLDFATHER, PEASE, and others

## Summer Session Courses

- S1. High School Latin.—Representative readings from the second, third, and fourth years with discussion of material for instruction. *(1½).* Professor BARTON
- S2. Roman Private Life.—The family, organization of society, marriage, education, amusements. Lectures and assigned readings, illustrated by slides and the collections of the Classical Museum. (1). Professor BARTON
- S3. Teachers' Course.—The problems and methods of instruction in Latin in the secondary schools; books and equipment. *(1½).* Professor BARTON

## Course for Graduates

- S109. Vergil.—The Aeneid. *(2 or ½ unit).* Professor BARTON

## COMMERCIAL LAW

(See BUSINESS ORGANIZATION AND OPERATION)

## COMPARATIVE PHILOLOGY

LEONARD BLOOMFIELD,<sup>1</sup> Ph.D., *Assistant Professor of Comparative Philology and German*

## For Advanced Undergraduates and Graduates

1. Introduction to the Study of Language.—Phonetics; the development of forms of speech; dialects and the spread of languages; the study and teaching of language. *I; (3).* Assistant Professor BLOOMFIELD  
*Prerequisite:* The consent of the instructor.
3. Elementary Sanskrit.—Reading and grammar. *I; (3).* Assistant Professor BLOOMFIELD  
*Prerequisite:* The consent of the instructor.
4. Elementary Sanskrit.—(Continuation of Comparative Philology 3.) *II; (3).*  
*Prerequisite:* Comparative Philology 3.

<sup>1</sup>Resigned, January 31, 1921.



## Courses for Graduates

101. **Comparative Philology of the Indo-European Languages.**—Attention will be given chiefly to Greek, Latin, and the Germanic languages, including English. *II*; (2).

*Prerequisite:* The consent of the instructor.

## DAIRY HUSBANDRY

MARTIN JOHN PRUCHA, Ph.D., *Professor of Dairy Bacteriology and Acting Head of the Department*

HARRY ALEXIS HARDING, Ph.D., *Professor of Dairy Bacteriology*

WILBER JOHN FRASER, M.S., *Professor of Dairy Farming*

WALTER LEE GAINES, Ph.D., *Professor of Milk Production*

HARRISON AUGUST RUEHE,<sup>1</sup> M.S., *Assistant Professor of Dairy Manufactures*

OLIVER RALPH OVERMAN, Ph.D., *Assistant Professor of Dairy Chemistry*

WILLIAM WODIN YAPP, M.S., *Assistant Professor of Dairy Husbandry*

MASON HERBERT CAMPBELL, M.S., *Associate in Dairy Husbandry*

ARTHUR SAMUEL AMBROSE, B.S., *Associate in Dairy Manufactures*

CHRIS SIMEON RHODE, B.S., *Associate in Dairy Husbandry*

BENJAMIN ANDREW STIRITZ, B.S., *Instructor in Dairy Manufactures*

REUBEN WALTER PETERSON, B.S., *Associate in Dairy Husbandry*

PAUL H TRACY, B.S., *Assistant, Dairy Manufactures*

## Courses for Undergraduates

A set of courses designed to meet the needs of those especially interested in dairy manufactures is now being arranged. Students looking toward specialization in Dairy Manufactures are advised to take as promptly as possible the fundamental courses underlying courses in Dairy Manufactures, giving particular attention to: Economics 1 and 3, Accountancy 11, Bacteriology 1, Chemistry 9-9c. They are also advised to consult the dairy department before registration.

1. **Milk Testing.**—Babcock test; tests for purity and adulteration; lactometer; tests for acidity, moisture, and salt; qualitative separation of milk into its components, and a brief study of the components; significance of the composition of milk. Lectures; recitations; problems; laboratory. *I* or *II*; (3).

Assistant Professor OVERMAN

2. **Dairy Cattle.**—Selection, feeding, and management; dairy type and its relation to production; herd improvement; history, characteristics, and adaptability of breeds; feeding for growth and production; herd management; milking machines; barn arrangement. Lectures; recitations; laboratory. *II*; (5).

Assistant Professor YAPP, Mr. CAMPBELL

*Prerequisite:* Dairy Husbandry 24, Animal Husbandry 8 and 21, or their equivalent.

8. **City Milk Supply.**—A study of the problems involved in the production, transportation, plant management, and distribution of milk for city supplies. Lectures, laboratory, and assigned readings. *II*; (2).

Professor HARDING, Mr. AMBROSE

**NOTE.**—It is suggested that course 10 be taken previous to this course.

<sup>1</sup>On leave of absence.

**14. Milk Condensing.**—Making various kinds of condensed milk; processing; milk powder; condensing plants and their equipment. This course requires one inspection trip, costing from \$15.00 to \$20.00. Lectures; laboratory. *II*; (2). Mr. PETERSON

*Prerequisite:* Dairy Husbandry 1, 5, or 15.

**22. Cheese Making.**—Practise in making the more common varieties of hard and soft cheese. Lectures; laboratory. *I*; (2). Mr. AMBROSE

*Prerequisite:* Dairy Husbandry 1.

**23a-23b. Investigation and Thesis.**—*I, II*; (5-10).<sup>1</sup> Heads of Divisions

**24. Elementary Production and Manufacture of Dairy Products.**—Herd selection and management; the testing and manufacture of the various dairy products. Required of all freshmen in the general curriculum in agriculture. *I* or *II*; (3). Mr. STIRITZ and others

### Courses for Advanced Undergraduates and Graduates

**4. Ice Cream Making.**—Mixing and freezing of ice cream, sherbets, and other frozen products, and the physical principles involved; types of freezers; flavoring materials, fillers, and binders; ice cream standards; the theory and practise of artificial refrigeration and its use in the ice cream plant. This course is accompanied by one inspection trip, costing from \$15.00 to \$20.00. *II*; (3). Mr. AMBROSE, Mr. STIRITZ

*Prerequisite:* Dairy Husbandry 1 or 5.

**5. Composition of Dairy Products.**—Rapid commercial tests; qualitative and quantitative study; the composition of milk proteins and their significance; composition, chemical and physical properties of milk fat and factors influencing them. Lectures; recitations; problems; assigned reading; laboratory. *II*; (3).

Assistant Professor OVERMAN

*Prerequisite:* Chemistry 9, 13a.

**7. Creamery Buttermaking and Factory Management.**—Types of creameries; raw product received; grading; pasteurization; use of commercial starters; ripening, churning, salting, and working butter; butter composition and scoring; explanation of various physical phenomena in making, packing, and storing of butter; creamery by-products; refrigeration. Creamery location and plans; business management and accounting in various types of creameries. This course is accompanied by one inspection trip costing from \$15.00 to \$20.00. Lectures; laboratory. *II*; (5). Mr. AMBROSE, Mr. STIRITZ

*Prerequisite:* Dairy Husbandry 1.

**10. General Dairy Bacteriology.**—A consideration of the relation of bacteria to market milk and milk products including milk beverages, butter, cheese, condensed milk, and ice cream. Lectures, laboratory, assigned readings. *I*; (4). Professor PRUCHA

*Prerequisite:* Bacteriology 1 or 5; junior standing.

**17. Advanced Study of Dairy Breeds.**—History; environment; breed characteristics; prominent families and individuals; pedigree work; special studies of inheritance; application of genetic principles to dairy cattle breeding. Lectures, assigned readings, seminar work. *I*; (2). Assistant Professor YAPP

*Prerequisite:* Two years of university work; Dairy Husbandry 2 or its equivalent.

**20. Economic Problems in Dairy Farming.**—The correct proportions of the productive factors on a dairy farm; magnitude of the investment necessary; importance of wise

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which he intends to take the course, e.g., not 2-5, but 2, or 3, or 4, or 5.

saving, consuming, and investing; economic problems of country life; what successful dairy farming means to the individual and community; comparative dairying. *I*; (2).

Professor FRASER

*Prerequisite:* Junior standing, and Economics 1 or 2.

**21. Systems of Dairy Farming.**—A proper balance of the different factors of production on a dairy farm; location; arrangement of fields and buildings; relation of the cow and the herd to profits; how to establish and perpetuate a dairy herd of the highest efficiency; economical crops and rations on a dairy farm; systems of cropping; markets; care and disposal of the product at the greatest profit. A three-day inspection trip is required in this course, the expense of which is about \$24.00. *II*; (5).

Professor FRASER

*Prerequisite:* Dairy Husbandry 2.

### Courses for Graduates

**101. Economic Milk Production.**—Efficiency of dairy farms; factors influencing profits. Twice a week; *I, II*; ( $\frac{1}{2}$  to 2 units). *Time to be arranged.* Professor FRASER

**104. Scientific Reading.**—Discussion of bacteriological problems based on selected German or French texts. Recommended for first- and second-year students. Once a week; *I, II*; ( $\frac{1}{2}$  unit). *Time to be arranged.* Professor PRUCHA, Professor HARDING

**105. Bacteriological Literature.**—Assigned systematic reading designed to cover a portion of the entire field of dairy bacteriology. Each student will be required to prepare and deliver an acceptable course of lectures. Recommended for second- and third-year students. Once a week, or once in two weeks; *I, II*; ( $\frac{1}{2}$  or 1 unit). *Time to be arranged.*

Professor HARDING

**106. Research on Assigned Problems.**—Open to students whose development permits their undertaking problems of dairy bacteriology with only general supervision. A study of the literature of the selected problem followed by laboratory study and reports. *I, II*; ( $\frac{1}{2}$  to 2 units). *Time to be arranged.*

Professor PRUCHA, Professor HARDING

**107. Dairy Chemistry.**—A survey of the literature; special investigations on assigned problems. Once a week; *I, II*; (1 unit).

Assistant Professor OVERMAN

**108. Physiology of Milk Production.**—Physiological factors involved in the growth of the mammary gland, the secretion of milk, and in milking. Study of production records. Once a week; *I, II*; ( $\frac{1}{2}$  to 2 units).

Professor GAINES

### DRAWING, GENERAL ENGINEERING

HARVEY HERBERT JORDAN, B.S., *Assistant Professor*

FRANCIS MARION PORTER, M.S., *Associate*

RANDOLPH PHILIP HOELSCHER, B.S., *Associate*

JOHN KNOX MCNEELY, A.M., *Associate*

RUSSELL A WATT, B.S., *Instructor*

LEONARD MISCALL, C.E., *Instructor*

CHARLES SIDNEY WASHBURN, B.S., *Instructor*

RUSSELL ALGER HALL, B.S., *Instructor*

ELMER FRANKLIN HEATER, B.S., *Instructor*

ARTHUR MITCHELL DUFF,<sup>1</sup> B.S., *Instructor*

JOSEPHINE EHLE, *Student Assistant*

H A HUNTINGTON, *Student Assistant*

HANS CHRISTIAN JOHNSEN, *Student Assistant*

WARREN EDDY CLEVELAND, *Student Assistant*

<sup>1</sup>Second semester.

**1. Elements of Drafting.**—Lettering; isometric oblique and perspective drawing, orthographic projection; machine sketching; working drawings; 12 plates from specifications and 6 plates from models, with tracings. Dimensioned sketches from parts of machines; tracings duplicated in blue-print. Time sketches. (More advanced work is given to students who have had high-school drawing.) *I or II;* (4) The department staff

**2. Descriptive Geometry.**—Point, line, and plane; surfaces; intersections and developments (for architects, perspective). Problems; recitations. Three drawing room plates, 2 hours each, 5 problems per plate, and 2 home plates, 5 problems each, a week. *I or II;* (4). The department staff

*Prerequisite:* Solid geometry.

**21. Advanced Descriptive Geometry.**—Cylinder, cone, convolute, and warped surface; intersections of surfaces in pairs, and by planes; planes tangent; developable and approximately developable surfaces and doubly curved and complex surfaces of revolution. *II;* (2). Mr. PORTER

*Prerequisite:* General Engineering Drawing 1, 2.

## ECONOMICS

(See also BUSINESS ORGANIZATION AND OPERATION AND TRANSPORTATION)

ERNEST LUDLOW BOGART, Ph.D., *Professor, Head of the Department*

NATHAN AUSTIN WESTON, Ph.D., *Professor*

MAURICE HENRY ROBINSON, Ph.D., *Professor*

CHARLES MANFRED THOMPSON, Ph.D., *Professor*

SIMON LITMAN, Dr.Jur.Pub.et Rer. Cam., *Professor*

GORDON WATKINS, Ph.D., *Associate Professor*

MERLIN HAROLD HUNTER, Ph.D., *Assistant Professor*

IVAN WRIGHT, M.S., *Instructor*

LOUISE BURNHAM DUNBAR, Ph.D., *Instructor*

AUGUSTA EMILIE GALSTER, A.M., *Instructor*

PEMBROKE HOLCOMBE BROWN, A.M., *Instructor*

ROGER WENDELL VALENTINE, A.B., *Assistant*

MAX JUDD WASSERMAN, A.B., *Assistant*

CLARENCE CHARLES HERRMANN, B.S., *Assistant*

RAY G ELLIS, B.S., Ph.B., *Assistant*

**Major:** For students in the College of Liberal Arts and Sciences twenty hours, made up of Economics 1 and any other courses in economics for which it is a prerequisite.

**Minors:** Twenty hours in any one or two of the following subjects: history, philosophy, political science, and sociology.

Economics 7, 22, and 26 are open to freshmen without previous requirement. Economics 27 is also open to freshmen, but requires credit in course 26 or an approved high-school course in commercial geography.

Economics 1 and 3 are the fundamental courses in economics. They are prerequisites for most of the advanced courses and students expecting to do advanced work in economics should take them both in their sophomore year.

Economics 2, tho open to all students who have had 30 hours of university work, is primarily for students in the Colleges of Agriculture and Engineering and in courses in home economics, chemistry, chemical engineering, and other sciences. It may not be used as a prerequisite for advanced courses in economics except as indicated.

## Courses for Undergraduates

**1. Principles of Economics.**—(See note preceding the description of courses in economics above.) *I*; (5).

Professor BOGART, Professor ROBINSON, Professor WESTON, Associate Professor WATKINS, Assistant Professor HUNTER, Mr. WRIGHT, Miss GALSTER, Mr. BROWN, Mr. VALENTINE, Mr. WASSERMAN, Mr. ELLIS.

*Prerequisite:* Thirty hours of university work.

**2. Principles of Economics.**—(See note preceding the description of courses in economics above.) *II*; (3).

Associate Professor WATKINS, Assistant Professor HUNTER, Mr. BROWN, Mr. ELLIS

*Prerequisite:* Thirty hours of university work.

**3. Money and Banking.**—(See note preceding the description of courses in economics above.) *II*; (3).

Professor WESTON, Mr. WRIGHT, Miss GALSTER, Mr. BROWN, Mr. WASSERMAN, Mr. HERRMANN.

*Prerequisite:* Economics 1.

**16c. Economics of Agriculture.** *I*; (3).

Mr. WRIGHT

*Prerequisite:* Economics 1 or 2.

**22. The Economic History of the United States.**—Open to freshmen only. *II*; (3).

Professor BOGART, Mr. WRIGHT, Miss DUNBAR, Miss GALSTER, Mr. BROWN, Mr. VALENTINE, Mr. WASSERMAN, Mr. HERRMANN, Mr. ELLIS.

**26. Economic Resources.**—Environment influences affecting commercial and industrial development; products and industries of different countries, especially of the United States. *Open to freshmen and sophomores only.* *I*; (3).

Professor LITMAN, Miss DUNBAR, Miss GALSTER, Mr. BROWN, Mr. VALENTINE, Mr. WASSERMAN, Mr. HERRMANN, Mr. ELLIS.

**33. Economics of Insurance.**—Historical development and economic aspects. *I*; (2).

Professor ROBINSON

*Prerequisite:* Economics 1 and 3.

**34. Property Insurance.**—Fire, marine, title, and credit insurance and corporative suretyship. *II*; (2).

Professor ROBINSON

*Prerequisite:* Economics 1 and 3.

## Courses for Advanced Undergraduates and Graduates

**4. Financial History of the United States.**—*II*; (3). Assistant Professor HUNTER

*Prerequisite:* Economics 1 and 3; senior standing.

**5. Public Finance.**—*I*; (3).

Professor BOGART, Assistant Professor HUNTER

*Prerequisite:* Economics 1.

**8a-8b. Foreign Exchange, International Banking, and the Money Market.**—*I, II*; (2).

Professor WESTON

*Prerequisite:* Economics 1 and 3; Business Organization and Operation 1; senior standing.

**9. Practical Banking.**—Banking practise in the United States. *I*; (2).

Professor WESTON

*Prerequisite:* Economics 1 and 3; Business Organization and Operation 1; senior standing.

**10. Corporation Management and Finance.—II; (3).**

Professor ROBINSON, Mr. WASSERMAN

*Prerequisite:* Economics 1 and 3.**11. Industrial Consolidation.—The growth of monopoly. I; (3).**

Professor ROBINSON

*Prerequisite:* Economics 10.**12a-12b. Labor Problems.—I, II; (3).**

Associate Professor WATKINS

*Prerequisite:* Senior standing, Economics 1, and three additional hours in economics for which Economics 1 is a prerequisite. *Or:* Senior standing and Economics 1 for students whose major is one of the social sciences.

**13. Economic Development of Europe Since the Industrial Revolution.—I; (3).**

Professor BOGART

*Prerequisite:* 60 hours of university work, including Economics 1 and 3. Students who present a statement from the department of history showing that they are taking history as a major, may be admitted without Economics 3.

**14. Cooperation in Agriculture.—(Open to junior and senior students of agriculture only). II; (2).**

Mr. WRIGHT

*Prerequisite:* Economics 1 or 2.**15. Financing Agriculture.—(Open to junior and senior students of agriculture only.) II; (2).**

Mr. WRIGHT

*Prerequisite:* Economics 1 or 2.**19. Economic History of the United States, 1820-1860.—I; (2).**

Professor THOMPSON

*Prerequisite:* Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.

**20. Economic History of the United States since 1860.—II; (2).**

Professor THOMPSON

*Prerequisite:* Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.

**21. Socialism and Economic Reform.—II; (2).**

Associate Professor WATKINS

*Prerequisite:* Economics 1 and 3. Students who have had 6 hours in history and Sociology 1 and present a statement from the department of sociology showing that they are taking sociology as a major may be admitted without Economics 3.

**28. Mechanism and Technic of Domestic Commerce.—Wholesale and retail organizations; markets, fairs, auctions, stock and produce exchanges; department, mail-order, and co-operative stores; commercial travelers; commercial competition; modern advertising; mercantile credit. I; (3).**

Professor LITMAN

*Prerequisite:* Economics 1 and 3.**29. Foreign Commerce and Commercial Politics.—II; (2).**

Professor LITMAN

*Prerequisite:* Economics 28.**31. Organization of Foreign Commerce.—Exporting and importing; ocean transportation; line and charter traffic; institutions for furthering export trade; the consular service; entry of goods; the work of the custom house. II; (3).**

Professor LITMAN

*Prerequisite:* Economics 28.**32. Marketing and Prices of Agricultural Products.—I; (2).**

Mr. WRIGHT

*Prerequisite:* Economics 1 or 2, and junior standing.

**61a-61b. Economic Theory.**—*I, II; (2).*

Professor THOMPSON

*Prerequisite:* Economics 1, a course in economics for which Economics 1 is a prerequisite and junior standing.

**Courses for Graduates**

Students entering upon graduate work in economics must have had a thoro course in the principles of the science and should also have studied some special part of the field, such as public finance or money and banking.

**101. Economic Theory.**—*Twice a week; I, II; (1 unit).*

Professor WESTON

[102. **Theory of Money, Credit, and Prices.**—*Twice a week; I, II; (1 unit).* Not given in 1920-21.]

**104. Foreign Commerce of the United States.**—The foreign commerce of the United States as shown in government publications. *Twice a week; I, II; (1 unit).*

Assistant Professor LITMAN

**105. Public Finance.**—The history and theory of public revenue and expenditure. *Twice a week; I, II; (1 unit).*

Professor BOGART

**107. The Corporation in Economic Evolution.**—*Twice a week; I, II; (1 unit).*

[109. **Theory of Industrial Consolidations.**—The nature of industrial consolidations; the conditions and causes responsible for their development and their effects upon the production and distribution of wealth. *Twice a week; I, II; (1 unit).* Not given in 1920-21].

**110. Investments.**—Nature, character, and functions of investments; classes; direct investments; securities of various types; methods of judging investments; state control. *Twice a week; I, II; (1 unit).*

Professor ROBINSON

**118. Seminar.**—*I, II.*

Professor BOGART and members of the staff

[122. **Advanced Economic History of the United States.**—*Twice a week; I, II; (1 unit).* Not given in 1920-21.]

**Summer Session Courses****Courses for Undergraduates****S2. Principles of Economics.**—(3).

Professor THOMPSON

*Prerequisite:* One year of university work or (for teachers) the permission of the instructor.

*Equivalent:* Economics 2.

**S3. Money and Banking.**—Money; monetary system of the United States; money and prices; credit and banking; domestic and foreign exchange; banking system of the United States compared with other banking systems. (2½).

Dr. HUNTER

*Prerequisite:* Five hour course in the principles of economics or the permission of the instructor.

*Equivalent:* Economics 3 when used as a prerequisite.

**Courses for Advanced Undergraduates and Graduates.**

**S5. Public Finance.**—Public expenditures; public revenues, especially taxes; justice in taxation; federal, state, and local taxes; war finance. (2½).

Dr. HUNTER

*Prerequisite:* Five hour course in the principles of economics, junior standing, or the permission of the instructor.

**S9. Advanced Banking.**—Recent banking development in the United States; present problems and practise. Students should provide themselves with copies of Agger's *Organized Banking*. (2). Professor WESTON

*Prerequisite:* Economics 1 and 3, junior standing.

*Equivalent:* Economics 9.

**S61. Economic Theory.**—(2). Professor THOMPSON

*Prerequisite:* Economics 1 or 2 and any other course in economics for which Economics 1 or 2 is a prerequisite, junior standing, the permission of the instructor.

*Equivalent:* Economics 61.

## EDUCATION

CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Professor, Dean of the College of Education and Director of the Summer Session*

HORACE ADELBERT HOLLISTER, A.M., *Professor, High School Visitor*

BURDETTE ROSS BUCKINGHAM, Ph.D., *Professor and Director of the Bureau of Educational Research*

EDWARD HERBERT CAMERON<sup>1</sup>, Ph.D., *Professor*

WALTER SCOTT MONROE, Ph.D., *Associate Professor and Assistant Director of the Bureau of Educational Research*

ROBERT FRANCIS SEYBOLT, Ph.D., *Associate Professor*

PAUL EVERETTE BELTING, Ph.D., *Assistant Professor*

ARLIE GLENN CAPPS, A.M., *Lecturer*

LEWIS WARD WILLIAMS, A.M., *Instructor and Secretary of the Appointments Committee*

CORNELIUS FRANCIS KRUSE, A.M., *Instructor*

MRS. CHARLES HUGHES JOHNSTON, A.B., *Assistant*

PAUL RAYMOND STEVENSON, A.M., *Assistant in the Bureau of Educational Research*

CHARLES WATTERS ODELL, A.M., *Assistant in the Bureau of Educational Research*

MARTIN JAMES STORMZAND, Ph.D., *Instructor (Summer Session)*

J ORIN POWERS, A.M., *Assistant (Summer Session)*

*Cooperating:*

BOYD HENRY BODE, Ph.D., *Professor of Philosophy*

**Major:** 20 hours including educational psychology, technic of teaching, a teachers' course in the subject of specialization for teaching, principles of secondary education, and teaching.

**Minors:** 20 hours made up from either (a) courses in any university subject represented in the high-school program; or (b) courses in any or two of the following departments: psychology, sociology, philosophy, and political science.

For the year 1920-21 the teachers' courses offered in the respective departments in the College of Liberal Arts and Sciences and the School of Music will be accepted, in the case of seniors, in the College of Education for the teachers' courses which will be organized later in the College of Education.

Students may substitute Education 1, Introduction to Education, taken during 1919-20, for educational psychology in fulfilling the requirements for the major in education.

### Introductory Courses

**2. History of Education.**—History of the evolution of educational theory, institutions, and practise. II; (3). Associate Professor SEYBOLT

*Prerequisite:* Junior standing.

**3. Survey of Modern Educational Problems.**—A consideration of problems of the



public schools from the standpoint of the citizen. Designed especially for students who are not planning to enter the teaching profession. *II*; (3). Dean CHADSEY

*Prerequisite:* Sophomore standing.

**5. Comparative Education.**—(Historical). *II*; (3). Associate Professor SEYBOLT

*Prerequisite:* Junior standing.

**10. Technic of Teaching.**—Types of classroom exercises and preparation of teaching plans; the hygiene of instruction; classroom management; professional ethics. Observation of teaching in neighboring high schools. (This course with Education 25 is, by Senate ruling, required of all students who are given the official recommendation of the Appointments Committee for teaching positions in secondary schools). *I, II*; (3).

Assistant Professor BELTING, Mr. CAPPS

**25. Educational Psychology.**—(Introductory course). Instinct; habit and the acquisition of skill; perception and memory, conception, judgment, and reasoning; applications to school subjects; lectures, readings, demonstrations. (This course with Education 10 is, by Senate ruling, required of all students who are given the official recommendation of the Appointments Committee for teaching positions in secondary schools). *I, II*; (3).

Professor CAMERON, Mr. KRUSE

*Prerequisite:* Psychology 1.

#### Courses for Advanced Undergraduates and Graduates.

**4. Problems of Educational Administration.**—Present tendencies as exemplified in the school systems of typical cities and states; recent educational experiments in administration. *I*; (3). Dean CHADSEY

*Prerequisite:* Senior standing or consent of instructor.

**6. Principles of Secondary Education.**—Evolution of high schools and of the fundamental conceptions of secondary education; proposed reorganization; relation of high schools to the state systems; legal status; articulation with the elementary school, the college, the technical school, the community, and the home; the teaching staff; reconstruction of curriculums, "controls" of instruction; direction of "student activities." Planned for those who expect to teach in secondary schools. *I, II*; (3).

Assistant Professor BELTING

*Prerequisite:* Education 25 and senior standing.

**18. Theory of Educational Measurements.**—Theory and principles of the derivation and evaluation of educational tests. *I*; (3).

Associate Professor MONROE

*Prerequisite:* Education 25.

**20a. Theory of Supervision.**—Training teachers in service; measuring educational products; qualities of merit and causes of failure in teachers; selection of teachers; organization of teachers' meetings and other agencies for improving the teaching service. *I*; (3).

Assistant Professor BELTING

*Prerequisite:* Education 25 or its equivalent.

**21. Units, Scales, and Standards.**—Administration and interpretation of educational tests. The student will be made acquainted with the most important educational tests, both in the elementary and high school field and with their standards. *II*; (3).

Associate Professor MONROE

*Prerequisite:* Education 18.

- [23. **Educational Statistics.**—*I*; (3). Not given in 1920-21.

Professor BUCKINGHAM

*Prerequisite:* Education 25 or its equivalent.]

27. **High-School Curriculums.**—Important historic curriculums for secondary education; modern curriculum-making; professional supervision; textbooks, apparatus, and teaching devices; the construction of curriculums for typical communities. *II*; (3).

Assistant Professor BELTING

*Prerequisite:* Education 25 or 6 (preferably both).

28. **The Project Method of Teaching.**—A course for superintendents, principals, supervisors, and teachers. Current literature; the relation of the project to curriculum organization, thinking, motivation; application of the project method; lectures, readings, and investigation of special problems. *I, II*; (2).

Mr. CAPPS

*Prerequisite:* Education 10 and 25.

41. **Principles of Vocational Education.**—An introduction to the field of secondary vocational education. The psychological and sociological bases of vocational education; problems, institutions, methods, contemporary movements, and legislation; applications of research in relating industry and education. Lectures, readings, discussions. *I*; (3).

Associate Professor VAUGHN

*Prerequisite:* Junior standing, or consent of the instructor.

43. **Mental Tests.**—Laboratory drill in the technic of mental tests, including tests of sensory capacities; attention; memory; learning; suggestibility; inventiveness; systems of tests for diagnosis of mental age; general intellectual status; mental retardation. *II*; (2).

Professor CAMERON

*Prerequisite:* Education 25 or an equivalent, and the consent of the instructor.

44. **Educational Psychology.**—(Laboratory course). *II*; (2).

Professor CAMERON

*Prerequisite:* Education 25.

45. **Problems in Educational Psychology.**—*I, II*; (1-3).

Professor CAMERON

*Prerequisite:* Education 25.

50. **Teaching.**—Practical experience in teaching classes. Offered only in Agriculture, Home Economics and Physical Education during the year 1920-21. *I*; (5); *II*; (5).

Mr. COLVIN, Mr. REID, Miss ALLYN, Director HUFF

*Prerequisite:* Senior standing.

### Courses for Graduates

101. **Seminar in Educational Theory.**—The philosophical basis of educational theory. *I*; (1 unit).

Professor BODE

102. **Seminar in History of American Education.**—*I, II*; (1 unit).

Associate Professor SEYBOLT

121. **Seminar in Educational Measurements.**—A critical study of the derivation of typical educational tests. The students will also be required to make individual investigations and reports. *II*; (1 unit).

Associate Professor MONROE

*Prerequisite:* Education 18.

125. **Seminar in Educational Psychology.**—Psychology of school subjects. *I*; (1 unit).

Professor CAMERON

**Departmental Conference.**—All graduate students majoring in education are expected to meet with the departmental staff the second and fourth Mondays of each month from 7 to 9 p. m. *I, II; (no credit).*

### Summer Session Courses

(The content of these courses is, in general, the same as in the regular session.)

- |  |                   |
|--|-------------------|
| S1a. Principles of Education.—(2½).    | Mr. STORMZAND     |
| S1b. The Educational System.—(1½).     | Mr. WILLIAMS      |
| S2. History of Modern Education.—(2½). | Mr. SEYBOLT       |
| S10. Technic of Teaching.—(2½).        | Mr. CAPPS         |
| S25. Educational Psychology.—(2).      | Professor CAMERON |

### Courses for Advanced Undergraduates and Graduates

- |   |                             |
|---|-----------------------------|
| S4. School Organization and Administration.—(2).                                  | Dean CHADSEY                |
| S6a. The Principles of High-School Education.—(1½).                               | Assistant Professor BELTING |
| S6b. The Principles of High-School Education.—(1½).                               | Assistant Professor BELTING |
| S16. Educational Finance.—(2).  | Professor BUCKINGHAM        |
| S17. The Teacher.—(2).  | Mr. WILLIAMS                |
| S18. Theory of Educational Measurements.—(2).                                     | Associate Professor MONROE  |
| S21. Educational Tests and Measurements.—(2).                                     | Associate Professor MONROE  |
| S23. Educational Statistics.—(2).   | Professor BUCKINGHAM        |
| S24. Classification, Promotion, and Guidance of Pupils.—(2).                      | Professor BUCKINGHAM        |
| S27. High-School Curriculum.—(2).   | Assistant Professor BELTING |
| S30. History of American Education.—(2½).   | Associate Professor SEYBOLT |
| S41. Principles of Vocational Education.—(1½).                                    | Professor GRIFFITH          |
| S43. Mental Tests.—(2).   | Professor CAMERON           |
| S52. The Teaching of English Composition and Literature in the High School.—(2½). | Mr. STORMZAND               |
| S60. High-School Administration.—(1).   | Assistant Professor BELTING |
| S104. Seminar in Problems in Educational Administration.—(½ unit).                | Dean CHADSEY                |
| S106. Seminar in High-School Administration.—(½ unit).                            | Assistant Professor BELTING |
| S125. Seminar in Educational Psychology.—(½ unit).                                | Professor CAMERON           |

### ELECTRICAL ENGINEERING

ELLERY BURTON PAINE, M.S., E.E., *Professor and Head of the Department*  
 MORGAN BROOKS, Ph.B., M.E., *Professor*  
 EDWARD HARDENBERGH WALDO, M.S., E.E., *Assistant Professor of Electrical Design*  
 ABNER RICHARD KNIGHT, M.E., *Associate*  
 ERNEST ALEXANDER REID, M.S., *Associate*  
 PAUL HENRY BURKHART, B.S., *Instructor*  
 HUGH ALEXANDER BROWN, M.S., E. E. *Instructor*  
 GEORGE SIMS PARKER, E.E., *Instructor*  
 DEVER EDWARD WOODS, B.S., *Assistant*

**4. Elementary Electrical Engineering.**—Electrical machinery; selection, installation, and operation; distribution of power; motor applications. *II*; (2). Professor BROOKS  
*Prerequisite:* Physics 1a-1b, 3a-3b; junior standing.

**8. Electric Currents and Apparatus.**—Direct and alternating current circuits and machines; storage batteries. (Especially for students in chemical engineering). *I*; (3). Mr. BROWN  
*Prerequisite:* Physics 1a-1b, 3a-3b; registration or credit in Mathematics 7; registration in Electrical Engineering 68.

**11. Direct Current Apparatus.**—Generators, motors, distribution circuits; storage batteries. (For students in mechanical engineering.) *I*; (3). Professor BROOKS  
*Prerequisite:* Physics 1a-1b, 3a-3b; Mathematics 8 or 9.

**12. Alternating Current Apparatus.**—Generators and motors, transformers, distribution systems. (For students in mechanical engineering.) *II*; (3). Professor BROOKS  
*Prerequisite:* Electrical Engineering 11, 61; registration in Electrical Engineering 62.

**25. Direct Current Apparatus.**—Laws of electric and magnetic circuits; construction and operation of direct current generators and motors. *I*; (4).

Mr. KNIGHT, Mr. BROWN  
*Prerequisite:* Mathematics 9; registration in Electrical Engineering 75 and Physics 44a.

**26. Alternating Currents.**—Mathematical and graphical treatment of periodic currents; phenomena in transmission lines and transformers. *II*; (4).

Mr. KNIGHT, Mr. BROWN  
*Prerequisite:* Electrical Engineering 25; Physics 44a; registration in Electrical Engineering 76.

**35. Alternating Current Apparatus.**—Transformers and generators. *I*; (4).

Professor PAINE  
*Prerequisite:* Electrical Engineering 26, 76; registration in Electrical Engineering 85.

**36. Alternating Current Apparatus.**—Synchronous, induction, and commutator motors; rotary converters; distributed inductance and capacity; transient phenomena. *II*; (4).

Professor PAINE  
*Prerequisite:* Electrical Engineering 35, 36; registration in Electrical Engineering 86.

**55. Electrical Design.**—Electromagnets and dynamos, direct and alternating; transformers. *I*; (2).

Assistant Professor WALDO  
*Prerequisite:* Electrical Engineering 26; registration in Electrical Engineering 35.

**56. Electrical Design.**—Power plant design. *II*; (4). Assistant Professor WALDO  
*Prerequisite:* Electrical Engineering 35; Mechanical Engineering 2.

**61. Direct Current Laboratory.**—Circuits and machines. (For students in mechanical engineering.) *I*; (1).

Mr. PARKER  
*Prerequisite:* Registration in Electrical Engineering 11.

**62. Alternating Current Laboratory.**—Alternating current circuits and machines. (For students in mechanical engineering.) *II*; (1).

Mr. PARKER  
*Prerequisite:* Electrical Engineering 11, 61; registration in Electrical Engineering 12.

**64. Electrical Engineering Laboratory.**—Testing of dynamos and motors. *II*; (1).

Mr. WOODS  
*Prerequisite:* Registration in Electrical Engineering 4.

**68. Electrical Engineering Laboratory.**—Direct and alternating current circuits and machines. *I*; (1). Mr. WOODS

*Prerequisite:* Registration in Electrical Engineering 8.

**71-72. Electrical Engineering Laboratory.**—The construction of special apparatus or other work approved by the department. (Elective for juniors and seniors.) *I, II*; (1-3).<sup>1</sup>

*Prerequisite:* Registration in Electrical Engineering 25.

**75. Electrical Engineering Laboratory.**—Direct current laboratory accompanying Electrical Engineering 25. *I*; (2). Mr. BURKHART

*Prerequisite:* Registration in Electrical Engineering 25.

**76. Electrical Engineering Laboratory.**—Flux and E. M. F. waves of alternators. Alternating current circuits, instruments. *II*; (2). Mr. BURKHART

*Prerequisite:* Electrical Engineering 25, 75; registration in Electrical Engineering 26.

**85. Electrical Engineering Laboratory.**—Advanced alternating current testing. *I*; (2). Mr. REID

*Prerequisite:* Electrical Engineering 76; registration in Electrical Engineering 35.

**86. Electrical Engineering Laboratory.**—Advanced alternating current testing. *II*; (2). Mr. REID

*Prerequisite:* Electrical Engineering 85; registration in Electrical Engineering 36.

**[87. Radio Communication.**—A mathematical and physical study of the principles of radio telegraphy and telephony; experimental work with radio equipment. This course is designed to prepare men for special technical service in the Signal Corps. *I*; (4). Not given in 1920-21. Mr. KNIGHT

*Prerequisite:* Senior standing in Electrical Engineering.]

**[88. Radio Communication.**—Continuation of Electrical Engineering 87. *II*; (4). Not given in 1920-21]. Mr. KNIGHT

*Prerequisite:* Electrical Engineering 87.]

**90. Lighting.**—Electric lamps and other illuminants, and their effective use; interior wiring; methods of distribution. (For students in architecture.) *I* (half semester only); (1). Professor BROOKS

*Prerequisite:* Junior standing.

**92. Lighting and Wiring.**—(First half of semester same as E. E. 90). Distribution and fusing. Underwriters' rules; motors. (For students in architectural engineering.) *I*; (2). Professor BROOKS

*Prerequisite:* Junior standing.

**95-96. Seminar.**—Electrical railroading; illumination; telegraphy; telephony; storage batteries; electric metallurgy. *I, II*; (1). Professor PAINE

*Prerequisite:* Junior standing.

**98. Thesis.**—First semester: preliminary reading and investigation; second semester: completion. *I*, (no credit); *II*, (3).

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study list *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not 2-5, but 2, or 3, or 4, or 5.

**Courses for Graduates**

Entrance on graduate work in electrical engineering presupposes the full undergraduate course in that subject.

**101. Advanced Course in Alternating Currents.**—The theory of Transient Phenomena; polyphase circuits; measuring apparatus. *Twice a week; I, II; (1½ units).*

Professor PAINE

**103. Electrical Design.**—Plans for specified machine or apparatus; or for the arrangement of an electrical plant; or for the installation of such machinery or apparatus. *Twice a week; II; (1 unit).*

Assistant Professor WALDO

**105. Electrical Engineering Research.**—Investigation of electrical phenomena or tests of some electrical machine, or of a plant of such machines. *Twice a week; I, II; (1 to 3 units).*

Professor PAINE

**ENGINEERING**

(See ARCHITECTURE, CERAMIC ENGINEERING, CIVIL ENGINEERING, DRAWING, ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING, MECHANICS, MINING ENGINEERING, MUNICIPAL AND SANITARY ENGINEERING, PHYSICS, RAILWAY CIVIL ENGINEERING, RAILWAY ELECTRICAL ENGINEERING, AND RAILWAY MECHANICAL ENGINEERING).

**THE ENGLISH LANGUAGE AND LITERATURE**

(Including RHETORIC, JOURNALISM, PUBLIC SPEAKING, and SCANDINAVIAN)

STUART PRATT SHERMAN, Ph.D., *Professor, Chairman*

DANIEL KILHAM DODGE, Ph.D., *Professor*

THOMAS ARKLE CLARK, B.L., *Professor and Dean of Men*

ERNEST BERNBAUM, Ph.D., *Professor*

GEORGE TOBIAS FLOM, Ph.D., *Professor of Scandinavian*

HARRY GILBERT PAUL, Ph.D., *Associate Professor*

EDWARD CHAUNCEY BALDWIN, Ph.D., *Assistant Professor*

FRANKLIN WILLIAM SCOTT, Ph.D., *Assistant Professor, Secretary*

HARRY STUART VEDDER JONES, Ph.D., *Assistant Professor*

JACOB ZEITLIN, Ph.D., *Assistant Professor*

HARRY FRANKLIN HARRINGTON, A. M., *Assistant Professor*

CHARLES HENRY WOOLBERT, Ph.D., *Assistant Professor of Speech*

HAROLD NEWCOMB HILLEBRAND, Ph.D., *Assistant Professor*

CLARENCE VALENTINE BOYER, Ph.D., *Associate*

CLARISSA RINAKER, Ph.D., *Associate*

ROBERT BRUCE WEIRICK, Ph.D., *Associate*

MARTHA JACKSON KYLE, A.M., *Instructor*

ALTA GWINN SAUNDERS, A.M., *Instructor in Business English*

JOHN JAY PARRY, Ph.D., *Instructor*

ERNEST ERWIN LEISY, A.M., *Instructor*

EDGAR COLBY KNOWLTON, Ph.D., *Instructor*

RUTH KELSO, A.M., *Instructor*

CLARA MABEL HOGUE, A.M., *Instructor*

MURRAY WRIGHT BUNDY, Ph.D., *Instructor*

CONSTANCE MIRIAM SYFORD, A.M., *Instructor*

ANABEL EUGENIA HARTMAN, A.M., *Instructor*

WILLIAM CHILTON TROUTMAN, A.M., *Instructor*

CAROLINE FRANCES TUPPER, Ph.D., *Instructor*  
 JOSEF FRANKLIN WRIGHT, A.B., *Instructor and Director of Publicity*  
 ELMO SCOTT WATSON, A.B., *Assistant*  
 ELEANOR CRAIG, Ph.B., *Assistant*  
 RALPH COLBY, A.M., *Assistant*  
 GEORGE KEYPORTS BRADY, A.M., *Assistant*  
 FRANK WARREN CLIPPINGER, A.M., *Assistant*  
 GORDON RANDOLPH CRECRAFT, A.B., *Assistant*  
 EDWARD WILLIAM DOLCH, A.M., *Assistant*  
 WINIFRED ALMINA PERRY, A.M., *Assistant*  
 LUCRETIA LOWE, A.M., *Assistant*  
 CONSTANCE ANNA BUSWELL, A.M., *Assistant*  
 MARION JEWETT AUSTIN, A.M., *Assistant*  
 ANNA DAY RINGLAND, A.M., *Assistant*  
 ELIZABETH BLAIR FLETCHER, A.M., *Assistant*  
 FLORENCE MILLER HUMPHREYS, A.M., *Assistant*  
 JULIA MINETTA BARBER, A.M., *Assistant*  
 ALLAN THURMAN WRIGHT, A.B., *Assistant*  
 BEULAH WISE PRANTE, A.M., *Assistant*  
 MAE ALICE TENNEY, A.M., *Assistant*  
 WARNER GRENELLE RICE, A.B., *Assistant*  
 DOROTHY MCSPARRAN, A.B., *Assistant*  
 CORNELIA PULSIFER KELLEY, A.M., *Assistant*  
 ROBERT EUGENE MCCORMICK, A.B., *Assistant*  
 LORENA BIXBY, A.M., *Assistant*  
 ALEXANDER ROBERTSON COWIE, A.B., *Assistant*  
 THEODORE WAYLAND DOUGLAS, A.B., *Assistant*  
 SAMPSON RAPHAELSON, A.B., *Assistant*  
 GUY LINTON DIFFENBAUGH, A.M., *Assistant*  
 SEVERINA ELAINE NELSON, A.B., *Assistant*  
 HENRY CARL OESTERLING, A.B., *Assistant*  
 A GERTRUDE SERGEANT, A.B., *Assistant*  
 PAUL NISSLEY LANDIS, A.M., *Assistant*  
 EDWIN BERRY BURGUM, A.M., *Assistant*  
 S DIX HARWOOD, A.B., *Assistant*  
 MARIAN PACE MCANALLY, A.B., *Graduate Assistant*  
*Cooperating:*  
 WILLIAM BRISTOW JONES, A.M., Litt.D. (*Summer Session*)  
 ROBERT E WILLIAMS, A.B., (*Summer Session*)

**Major:** 20 hours in English excluding Rhetoric 1-2 and English 10, and including at least 10 hours in English literature, at least 3 hours in composition, and at least 1 one-year course, or its equivalent, from the advanced group of courses.

**Minors:** 20 hours in either (a) one foreign language; or (b) in any two foreign languages; or (c) in one foreign language and philosophy; or (d) in one foreign language and history.

#### A. ENGLISH LITERATURE AND LANGUAGE

##### Elementary Courses.

**1-2. Survey of English Literature.**—(Credit is not given for either semester separately, nor for the course in addition to course 10-11 or course 20.) *I, II; (4).*

Professor SHERMAN, Assistant Professor BALDWIN, Assistant Professor HILLEBRAND, Dr. RINAKER, Mr. COLBY.

*Prerequisite:* One year of college work.

**10-11. Introduction to Literature.**—First semester: The forms of poetry. Second semester: The forms of prose literature. (This course is intended only for those who expect to include a considerable amount of literature, in English or in some other language, in their curriculum. Credit is not given for the course in addition to English 1-2 or 20 nor for either semester separately. One semester's work is credited toward a major in English.) *I, II; (3).*

Professor DODGE, Associate Professor PAUL, Assistant Professor JONES, Assistant Professor ZEITLIN, Miss KYLE, Dr. PARRY, Dr. TUPPER, Dr. KNOWLTON.

*Prerequisite:* The minimum entrance requirements in English.

**12-13. American Literature.**—(Credit is not given for either semester separately.) *I, II; (2).* Associate Professor PAUL

*Prerequisite:* English 1-2 or 10-11, or junior standing.

**20. Chief English Writers of the Nineteenth Century.**—The course aims to awaken an interest in literature by presenting the best thought of nineteenth century men of letters on religion, politics, economics, conduct, and social life. For those whose program admits of but one semester's work in English. Credit is not given for the course in addition to English 1 or 10. *I or II; (4).*

Dr. BOYER, Dr. RINAKER, Dr. PARRY, Dr. KNOWLTON, Dr. WEIRICK, Mr. BRADY  
*Prerequisite:* One year of college work.

**23. Introduction to Shakespeare.**—*I or II; (3).*

Professor SHERMAN, Assistant Professor HILLEBRAND  
*Prerequisite:* English 1-2 or 10-11, or junior standing.

**21-22. Literary Study of the Bible.**—Hebrew literature as an expression of the life of the race that produced it; the debt, both ethical and artistic, of modern life to ancient Hebrew thought. (Either semester may be taken separately.) *I, II; (3).*

Assistant Professor BALDWIN

*Prerequisite:* Six hours of English literature.

**24. English Literature of the Victorian Period.**—*II; (3).*

Miss KYLE

*Prerequisite:* Six hours of English literature.

**29. English Literature from 1557 to 1688, Exclusive of the Drama.**—*I; (3).*

Assistant Professor BALDWIN

*Prerequisite:* Six hours of English literature.

**31. English Literature from 1688 to 1789.**—*II; (3).*

Associate Professor PAUL

*Prerequisite:* Six hours of English literature.

**33. English Literature from 1789 to 1837.**—*I; (3).*

Assistant Professor ZEITLIN

*Prerequisite:* Six hours of English literature.

**43. Browning.**—Intensive reading of the principal poems. *I; (3).*

Miss KYLE

*Prerequisite:* Six hours of English literature or junior standing.

**[44. Contemporary Poetry.**—A study of writers representing the principal movements in contemporary poetry, English and American. *II; (3).* Not given in 1920-21.

*Prerequisite:* Ten hours of English literature or junior standing].

### Courses for Advanced Undergraduates and Graduates

*Prerequisite:* Junior or senior standing and either ten hours of English literature or the consent of the instructor.



3. **The Poetry of Milton.**—Origin, forms, artistic and ethical values; Milton's place in English literary history. *II*; (3). Assistant Professor BALDWIN

[4. **English Versification.**—History and technic; reading of representative poems; verse composition conferences. *I*; (2). Not given in 1920-21.]

5. **Shakespeare.**—Intensive study of six plays, with special emphasis on *Hamlet*. *II*; (3). Professor DODGE

25. **Chaucer.**—*I*; (3). Assistant Professor JONES

[27. **English Literary Periodicals and the Genesis of the Periodical Essay in the 17th and 18th Centuries.**—*I*; (2). Not given in 1920-21. Assistant Professor SCOTT]

28. **The Magazine in America.**—*II*; (2). Not given in 1920-21. Assistant Professor SCOTT]

8-9. **Old English.**—(Anglo-Saxon.)—Grammar; short poems; *Beowulf*. (The first semester may be taken separately.) *I, II*; (3). Professor DODGE

17. **History of the English Language.**—The developments of its sound system, grammatical form, and vocabulary, and the principles of its present usage. *II*; (3). Assistant Professor ZEITLIN

35-36. **The English Drama (Exclusive of Shakespeare.)**—First semester: from the beginning to 1600. Second semester: from 1600 to 1700. (Either semester may be taken for separate credit.) *I, II*; (3). Professor DODGE, Assistant Professor HILLEBRAND

38. **The Arthurian Tradition.**—The historical Arthur; Celtic influences; Old French Romances (in translation); the tradition in England to the present time, with especial attention to Malory and Tennyson. *II*; (2). Dr. PARRY

[39. **Introduction to the Literature of the Middle Ages.**—Classical influences. Principal types; epic, romance, legend, lay, allegory, fabliau, lyric. Important poems, both English and continental, will be read in translation. *II*; (3). Not given in 1920-21.]

41. **The Teaching of English Literature.**—*I*; (2). Associate Professor PAUL

42. **The Teaching of English Composition.**—*II*; (2). Associate Professor PAUL

45. **The Development of the Modern Drama.**—Dramatic tendencies in the nineteenth century, both in England and on the Continent; representative reading, and lectures from the standpoint of comparative literature. *I*; (3). Assistant Professor HILLEBRAND

49. **Literary Treatment of Social and Economic Problems, 1770-1870.** *II*; (3). Dr. BOYER

52. **The Great Novelists of the Nineteenth Century.**—Scott, Jane Austen, Dickens, Thackeray, Hawthorne, George Eliot, Meredith, Hardy, Stevenson, etc. *I*; (3). Professor BERNBAUM

53. **Matthew Arnold.**—A study of his prose and poetry with special reference to the currents of nineteenth century thought. *II*; (3). Professor SHERMAN

54. **Introduction to Comparative Literature.**—Introductory and comparative survey of the greatest Greek, Latin, Italian, Spanish, French, German, and English authors. The second semester may not be taken separately. *I, II*; (3).

Professors OLDFATHER, MCKENZIE, FITZ-GERALD, LESSING, BERNBAUM, Dr. VAN HORNE.

**60a-60b. Thesis.**—Special training in investigation for candidates for honors and for other seniors. *I, II; (1).* Assistant Professor ZEITLIN and others

### Courses for Graduates

**101. Research in Special Topics.**—Guidance in writing theses for advanced degrees. *I, II; (1 or 2 units).*

Professor SHERMAN, Professor DODGE, Professor BERNBAUM, Associate Professor PAUL, Assistant Professor BALDWIN, Assistant Professor SCOTT, Assistant Professor JONES, Assistant Professor ZEITLIN, Assistant Professor HILLEBRAND, Dr. RINAKER.

**110. Old English (Anglo-Saxon) Poetry.**—*Twice a week. I; (1 unit).*

Professor DODGE

**[114. Development of the Essay.**—An examination of the various types of the English essay with reference to Continental influences and classical origins. *I, II; (1 unit).* Not given in 1920-21. Assistant Professor ZEITLIN]

**[120. History of Literary Criticism.**—Critical standards from Aristotle to Sainte Beuve. The main types of criticism. *I, II; (1 unit).* Not given in 1920-21.]

**[128. Spenser and the Beginnings of the English Renaissance.**—The persistence of certain medieval traditions reinforced by the Revival of Classical Learning, Catholicism, and Calvinism as sources of literary inspiration. Not given in 1920-21. *Twice a week I, II; (1 unit).* Assistant Professor JONES

**129. English Literature from the Norman Conquest to Chaucer.**—Readings in Middle English authors exclusive of Chaucer, and lectures on the literature of the period. *Twice a week. I, II; (1 unit).* Assistant Professor JONES

**[135. Problems in American Literature.**—*I, II (1 unit).* Not given in 1920-21. Associate Professor PAUL]

**136. The Transition from the Seventeenth to the Eighteenth Century, 1675-1725.**—The Rise of Classicism. *Twice a week. I, II; (1 unit).* Associate Professor PAUL

**[137. Prose Writers of the Nineteenth Century.**—Relation of literature to social forces; Mill, Carlyle, Newman, Ruskin, Arnold, Pater, and others. *Twice a week. I, II; (1 unit).* Not given in 1920-21. Professor SHERMAN]

**138. The Romantic Movement in England.**—*I, II; (1 unit).* Professor SHERMAN

**[139. The Sonnet Revival in the Eighteenth Century.**—Special topics for investigation and reports with emphasis on methods of research. *Twice a week. I; (1 unit).* Not given in 1920-21. Dr. RINAKER]

**140. Investigation in Modern English Literature.**—For second and third year graduate students who are preparing theses for the doctor's degree. May be taken in successive years. *Three hours, once a week. I, II; (1 to 3 units).* Professor BERNBAUM

**141. The History of Seventeenth Century English Literature to About the Year 1675, beginning with Shakespeare's Sonnets.**—*I, II; (1 unit).* Professor BERNBAUM

**143. The Origin of the English Novel, and its History to the End of the Eighteenth Century.**—The first semester may not be taken separately. *I, II; (1 unit).* Professor BERNBAUM

**144. Lincoln's Letters and Speeches.**—Development of style, relation to period] textual study, contemporary estimates. *II; (1 unit).* Professor DODGE

Summer Session Courses

Courses for Undergraduates

**S1a. Survey of English Literature.**—Chaucer to Milton. (2).

Assistant Professor JONES

*Prerequisite:* One year of college work or the equivalent.

*Equivalent:* First half of English 1. (Together with S1b this course covers the work of English 1. To be credited as equivalent to English 1, S1b and S1a, should be taken simultaneously).

**S1b. Survey of English Literature.**—Bunyan to Burns. (2).

Professor DODGE

*Prerequisite:* One year of college work or the equivalent.

*Equivalent:* Second half of English 1. (To be credited as equivalent to English 1, S1b and S1a should be taken simultaneously).

**S12. American Literature.**—(2).

Professor DODGE

*Prerequisite:* One year of college work or the equivalent.

*Equivalent:* English 12.

**S23. Shakespeare.**—Midsummer Night's Dream, Richard III, Romeo and Juliet, Henry V, Much Ado, Twelfth Night, Othello, Lear, Antony and Cleopatra, Tempest. (2½).

Dr. HILLEBRAND

*Prerequisite:* One year of college work or an equivalent.

*Equivalent:* English 23 (in part).

**S43. Tennyson and Browning.**—(2½).

Dr. BUNDY

*Prerequisite:* Six hours of English literature or junior standing.

*Equivalent:* English 43 (in part).

**S45. Contemporary European Drama.**—(3).

Assistant Professor HILLEBRAND

*Prerequisite:* Junior or senior standing and either ten hours of English literature or the consent of the instructor. Open to any upperclassman or graduate student with the consent of the instructor.

*Equivalent:* English 45.

**S52. The Great Novelists of the Nineteenth Century.**—Scott, Jane Austen, Dickens, Thackeray, Hawthorne, Trollope, Meredith, Hardy, Stevenson, etc. (2½). Dr. WEIRICK

*Prerequisite:* Junior or senior standing and either ten hours of English literature or the consent of the instructor.

*Equivalent:* English 52.

Courses for Graduates

**S101. Research in Special Periods.**—(1 unit).

Professor DODGE, Assistant Professor JONES, Assistant Professor HILLEBRAND

**S129. English Literature from the Norman Conquest to Chaucer.**—(1 unit).

Assistant Professor JONES

B. RHETORIC

Courses for Undergraduates Only

**0. Preparatory Composition.**—A course for students who do not pass the preliminary test in Rhetoric 1. Spelling, grammar, punctuation, sentence structure. I or II; (no credit).

Assistant Professor SCOTT in charge; Miss SYFORD, Miss HUMPHREYS, Miss AUSTIN, Mr. A. T. WRIGHT, Miss BUSWELL, Mr. OESTERLING, Mr. DIFFENBAUGH.

**1-2. Rhetoric and Themes.**—Required for students in the Colleges of Liberal Arts and Sciences, Commerce, Engineering, and Agriculture. The course is not counted toward a major in English. *I, II; (3).*

Assistant Professor SCOTT in charge; Assistant Professor HILLEBRAND, Dr. BOYER, Dr. RINAKER, Dr. WEIRICK, Dr. PARRY, Mr. LEISY, Dr. KNOWLTON, Miss KELSO, Miss HOGUE, Dr. BUNDY, Miss SYFORD, Miss HARTMAN, Dr. TUPPER, Miss CRAIG, Mr. COLBY, Mr. BRADY, Mr. DOLCH, Miss PERRY, Miss LOWE, Miss BUSWELL, Miss AUSTIN, Mrs. RINGLAND, Miss FLETCHER, Miss HUMPHREYS, Miss BARBER, Mr. A. T. WRIGHT, Miss PRANTE, Miss TENNEY, Mr. RICE, Miss MCSARRAN, Miss KELLEY, Mr. MCCORMICK, Miss BIXBY, Mr. COWIE, Mr. DOUGLAS, Mr. RAPHAELSON, Mr. DIFFENBAUGH, Mr. OESTERLING, Mr. LANDIS, Mr. BURGUM, Mr. HARWOOD, Miss MCANALLY.

*Prerequisite:* The minimum entrance requirements in English.

Admission to the course is tentative, pending the successful completion of a preliminary test covering the first two weeks of the course.

**3a.<sup>1</sup> Exposition.**—Themes or topics of general interest; analysis of facts and ideas, literary reviews, and criticisms; informal essays. *I or II; (3).*

Assistant Professor JONES, Miss KYLE

*Prerequisite:* Rhetoric 1-2.

**3b.<sup>1</sup> Specialized Exposition.**—Designed to meet the needs of students who desire instruction and criticism in the preparation of professional and scientific papers. *I; (3).*

Dr. BUNDY

*Prerequisite:* Rhetoric 1-2.

**3d. Description and Simple Narrative.**—*II; (3).*

Miss KYLE

*Prerequisite:* Rhetoric 1-2.

**6-7. Narrative Composition.**—Practise in short story writing. (Intended for those who have some aptitude for literary work.) *I, II; (3).*

Dr. WEIRICK

*Prerequisite:* Two years of college work and the consent of the instructor.

**10. Business Writing.**—Correspondence; sales letters; practise in writing business reports and summaries. Lectures and discussions. (Not counted toward a major in English.) *I or II; (2).* Mrs. SAUNDERS, Mr. DOLCH, Mr. CLIPPINGER, Mr. RAPHAELSON

*Prerequisite:* Rhetoric 1-2.

**[22. Summarizing and Briefing.**—Summarizing, briefing, and making reports; abstracts of correspondence on file; summarizing of commercial and economic data for the solution of business problems. (For students in the College of Commerce and Business Administration). *II; (2).* Not given in 1920-21.

Mrs. SAUNDERS]

**46. Dramatic Composition.**—Theory and practise. *II; (3).*

Assistant Professor HILLEBRAND

*Prerequisite:* Junior standing and the consent of the instructor.

### Courses for Advanced Undergraduates and Graduates.

**17. Advanced Composition.**—The study of structure; criticism of current periodical literature; development of material for reports and magazine articles. *I; (3).* Dr. BOYER

*Prerequisite:* Two years of college work and the consent of the instructor.

<sup>1</sup>No one may receive credit for both 3a and 3b.

Summer Session Courses  
Courses for Undergraduates

**S1. Rhetoric and Themes.**—Principles of structure; grammar; punctuation; the sentence; reasoning processes. Mr. JONES, Mr. DOLCH

*Prerequisite:* Entrance credit in English.

*Equivalent:* Rhetoric 1.

**S2. Rhetoric and Themes.**—Principles of argumentation, narration, and description. (3). Mr. JONES

*Prerequisite:* Rhetoric 1.

*Equivalent:* Rhetoric 2.

**S3. Exposition.**

Dr. WEIRICK

*Prerequisite:* Rhetoric 1-2.

*Equivalent:* Rhetoric 3.

**S10. Business Writing.**—(Not counted towards a major in English.) Mr. DOLCH

*Prerequisite:* Rhetoric 1-2.

*Equivalent:* Rhetoric 10.

C. JOURNALISM

**1. The Collecting and Writing of News.**—Methods of popular approach; structure and style; drill in gathering news; exercises and assignments in writing the news-story; the various types of newspaper narratives; news values considered with the aid of representative newspapers on file in the laboratory. Five laboratory periods and three lectures a week. I; (3). Assistant Professor HARRINGTON, Mr. WATSON, Mr. J. F. WRIGHT

*Prerequisite:* Rhetoric 1-2.

**2. The Newspaper.**—(A continuation of Journalism 1.) Interviewing and newspaper correspondence; the organization and mechanical details of the newspaper; the work of the press associations; a brief historical survey of the American newspaper. Practise in writing for newspapers. Five laboratory periods and three lectures a week. II; (3).

Assistant Professor HARRINGTON, Mr. WATSON, Mr. J. F. WRIGHT

**3. Copy-reading and Head-Writing.**—Practical training in the reading of copy, re-writing, and building of headlines. Four hours' work on the desk and one lecture a week. I; (2).

Mr. WATSON

*Prerequisite:* Journalism 1 and 2, or consent of the instructor.

**4. Make-up and Editorial Practise.**—Training in proofreading, handling correspondence, lay-outs, and art work, type selection, making-up, and editorial supervision. Four hours' work on the desk and one lecture a week. II; (2).

Mr. WATSON

*Prerequisite:* Journalism 1, 2, and 3, or consent of the instructor.

**[5. Problems of Reporting.**—An analysis of changing news values; discussions on accuracy and fair play; the technic of news gathering; constructive handling of institutional, political, and criminal news; the education and training of the reporter. I; (2). Not given in 1920-21.

Assistant Professor HARRINGTON

*Prerequisite:* One course in journalism.]

**6. Newspaper Policies.**—Personal forces in American journalism; the relation of the newspaper to the public; making the newspaper more dynamic; syndicates, headlines,

first-page displays; newspaper campaigns; ethical aspects in the treatment of news, editorials, and advertising. *II*; (2). Assistant Professor HARRINGTON

*Prerequisite:* Junior standing.

**7. Making a Country Newspaper.**—Discussions intended primarily for juniors and seniors interested in the publication of country weeklies and small city dailies. A study of small town conditions; problems affecting rural news-gathering; country correspondence; circulation; advertising; business efficiency; print-shop equipment. Special investigations by members of the class. *I*; (2). Assistant Professor HARRINGTON

*Prerequisite:* Junior standing.

**8. Agricultural News Writing.**—Class exercises; analysis of representative farm journals; lectures; assignments in gathering and preparing material for agricultural and country papers. *II*; (3).

*Prerequisite:* Junior standing.

**9-10. Editorials and Special Articles.**—Sources and treatment of materials for editorials and articles; the interpretation of news; journalistic backgrounds; the relation of current events to the social sciences. Assigned readings; preparation of editorials, feature articles, and reviews. *I, II*; (3). Assistant Professor HARRINGTON

*Prerequisite:* Junior standing.

**12. Publicity Methods.** *II*; (2).

Mr. J. F. WRIGHT

*Prerequisite:* Junior standing.

**[32. Law of the Press.**—Organization of the courts and their jurisdiction; elementary legal procedure; law of libel; fair comment on books, plays, and public men; reports of public official proceedings, such as court and legislative proceedings; constitutional guarantees of the liberty of the press; statutory restrictions of the press; copyright. The instruction includes an examination and criticism of current newspaper articles. *II*; (2). Not given in 1920-21.

*Prerequisite:* Junior standing.]

#### D. PUBLIC SPEAKING

**1. Oral Expression.**—Theory and practise of oral expression for public and private address; elimination of mannerisms; cultivation of vocal purity and power; development of self-confidence and poise. *I* or *II*; (2).

Assistant Professor WOOLBERT, Mr. TROUTMAN, Mr. CRECRAFT, Miss NELSON, Miss SERGEANT.

Credit is not given for this course unless it is followed by Public Speaking 2 or 10.

*Prerequisite:* Rhetoric 1-2.

**2. Extemporaneous Speaking.**—Theory and practise in coherent and effective organization of original materials, and in composition for practical public speaking; adaptation of speaking manner to subject matter; discussion of topics of current interest. *II*; (2).

Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1.

**10. Interpretation and Dramatization of Literature.**—Oral interpretation of standard literature; interpretation and staging of plays. *II*; (2).

Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1.

**3. Argumentation.**—Theory of argumentative discourse, for the cultivation of ability in meeting the contentions of an opponent, in analytical and instructive thinking; briefing,

speech-writing, training in detection of fallacies in popular argument, criticism of the literature of debate; text and exercises. *I*; (3). Mr. TROUTMAN

*Prerequisite:* Public Speaking 1 and 2.

4. **Debate.**—Application of the principles of argumentation to spoken debate, particularly political and intercollegiate discussions; team competition, adaptation of argument to various types of audience; popular debate; opportunities for practise debates before real audiences. *II*; (3). Mr. TROUTMAN

*Prerequisite:* Public Speaking 3.

5. **Persuasion.**—The winning of individuals and audiences by means of the written and spoken appeal; a study of the psychological sources of human action; primarily a study in matter, with secondary attention to appropriate platform manner and methods. *I*; (2). Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1 and 2.

6. **Forms of Public Address.**—Application of the principle of persuasion to particular types of address; practise in the composition and delivery of legislative, political, commemorative, dedicatory, inaugural, and academic addresses; the sales talk, plea for a client, the college oration, commencement address; lyceum lecture, and after-dinner talk. *II*; (2). Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1 and 2. Public Speaking 5 is recommended.

7. **A Study of Orators and Oratory.**—The lives, times, and works of distinguished speakers: required readings and reports, chiefly oral in the form of speeches; discussions, topical speeches, and declamations. *II*; (2). Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1 and 2 or 1 and 10.

12. **The Teaching of Public Speaking.**—Theories of speech-training; organization of courses; methods of teaching; coaching debate, oratory, theatricals; oral English; standards of criticism. *II*; (2). Assistant Professor WOOLBERT

### Summer Session Courses

S1. **Oral Expression.**—Vocal methods, relation of the voice to the interpretation of thought. (2). Mr. WILLIAMS

*Prerequisite:* Rhetoric 1 and 2 or equivalent.

*Equivalent:* Public Speaking 1.

(Credit is not given for this course unless it is followed by Public Speaking 2 or 10, or an equivalent).

S10. **Interpretation and Dramatization.**—Oral reading of types of literature; principles of stage action; staging and acting of several one-act plays. (2). Mr. WILLIAMS

*Prerequisite:* Public Speaking 1 or equivalent.

*Equivalent:* Public Speaking 10.

S11. **Problems in the Teaching of Oral English.**—Primarily for high-school teachers. (1). Mr. WILLIAMS

*Prerequisite:* The consent of the instructor.

### F. SCANDINAVIAN

#### Undergraduate Courses Not Open to Freshmen

[1a-1b. **Elementary Norwegian.**—Grammar; conversation; reading of Bjornson's stories. *I, II*: (2). Not given in 1920-21. Professor FLOM

**2a-2b. Elementary Swedish.**—Grammar; conversation; composition. Easy readings. Elmqists' *Swedish Reader*. *I, II*; (2). Professor FLOM

**3a-3b. Intermediate Norwegian.**—First semester; Ibsen's *Et Dukkehjem*, and Lie's *Fortallinger og Skildringer*. Second semester: Bjornson's *En Fallit* and selections from recent writers. *I, II*; (2). Professor FLOM

*Prerequisite:* Scandinavian 1 or the equivalent.

**4a-4b. Intermediate Swedish.**—Reading of selected works of present-day Swedish writers; lectures. *I, II*; (2).

*Prerequisite:* Scandinavian 2 or the equivalent.

Professor FLOM

**6. Henrik Ibsen.**—Lectures; class study of three of the social dramas; parallel reading of three early and three of the later dramas. Archer's translation is used. *II*; (2).

Professor FLOM

*Prerequisite:* Junior standing.

**12. Norse Mythology.**—Primitive religion; the religious belief of the Norsemen in pre-Christian times; interpretation of the principal myths; the beginnings of literature. *I*; (3).

Professor FLOM

**[16. Lectures on Scandinavian Civilization from Stone Age to 1000 A. D.]**—Special emphasis upon relation to the early civilization of Western Europe. *II*; (2). Not given in 1920-21.

Professor FLOM

*Prerequisite:* Junior standing.]

**[14. History of Old Norse Literature.]**—The mythical lays, the court poetry, the sagas, the ballads. *I*; (2). Not given in 1920-21.

Professor FLOM

*Prerequisite:* Senior standing.]

### Courses for Graduates

Preparation for graduate work in the Scandinavian languages or literature must include a reading knowledge of one of the Scandinavian languages and systematic work in the undergraduate courses in Scandinavian or their equivalent. Any graduate student in language may, however, be admitted to the purely philological courses.

**101. Old Norse.**—Introduction to the language as a member of the Germanic group. Reading of the *Prose Edda* in part. *I, II*; (1 unit).

Professor FLOM

**110. Advanced Old Norse.**—A critical study of the lays of *Elder Edda*. *I, II*; (1 unit).

Professor FLOM

**150. Research.**—Special problems in Scandinavian philology or literature. *I, II*; ( $\frac{1}{2}$  to 1 unit).

Professor FLOM

### ENTOMOLOGY

STEPHEN ALFRED FORBES, Ph.D., LL.D., *Professor, Chief of State Natural History Survey*

ALEXANDER DYER MACGILLIVRAY, Ph.D., *Professor*

JUSTUS WATSON FOLSOM, D.Sc., *Assistant Professor*

ROBERT DOUGLASS GLASGOW, Ph.D., *Instructor*

CHARLES PAUL ALEXANDER, Ph.D., *Entomologist, Natural History Survey*

LEWIS BRADFORD RIPLEY, M.S., *Graduate Assistant*

**Major:** 20 hours from courses offered in the department, except Entomology 1a-1b, 3, 4, 16, and 19.



**Minors:** 20 hours in botany, physiology, zoology, horticulture, and agronomy.

Beginning courses open to freshmen and without prerequisites are 1a, 1b, 3, and 4. Course 1a may best be followed by 2 or 4, course 1b by 2 or 7, and course 15 by 7 for juniors and 18 for seniors. Students preparing for service as economic entomologists should take as many of the courses offered as possible, including especially 1a, 2, 4, 7, and 8.

**1a. Elementary Entomology.**—The structure, function, inter-relations, origin, and development of insects, and the simpler generalizations of biological theory illustrated with insect material. Field observations; methods of collecting, mounting, and preparing insect materials for study, and the preparation of a reference collection of the commoner species and their work with special reference to injurious forms. Especially recommended as preliminary to Entomology 4, and for prospective teachers of zoology. Lectures, field laboratory, and quiz work. (Students may not receive credit for both 1a and 1b). *I*; (3).

Dr. GLASGOW

**1b. Elementary Entomology.**—The life, development, anatomy, and classification of insects, together with the identification of some common species. Designed for those as a wish to acquaint themselves with the most interesting phases of insect life, especially who preparation for teaching. (Students may not receive credit for both 1a and 1b). *I* or *II*; (3).

Professor MACGILLIVRAY

**3. Insects of the Vicinity.**—Students will make collections of the insects of the neighborhood, under the guidance of an instructor, and will learn to prepare, classify, label, and arrange their collections, with the aid of keys and manuals of the different orders. Lectures, as needed, on the structure of insects and on the general principles and features of insect classification; and studies on the habits, habitats, and transformations of the species collected. *I, II*; (2).

Dr. ALEXANDER

**2. General Entomology.**—Morphological, physiological, and systematic entomology; the collection and preservation of specimens; field observations; studies of adaptive structures; classification and determination of insects; studies of life histories. *I, II*; (3).

Assistant Professor FOLSOM, Dr. GLASGOW

*Prerequisite:* Entomology 1a, 1b, or 3.

**7a-7b. Systematic Entomology.**—The external anatomy of insects; terminology of the parts; identification of specimens. *I, II*; (5).

Professor MACGILLIVRAY

*Prerequisite:* Entomology 1a, 1b, or 3.

**4. Introduction to Economic Entomology.**—Lectures, field work; laboratory. Primarily for students in the College of Agriculture; it may not be counted for satisfaction of group requirements in the College of Liberal Arts and Sciences. *I* or *II*; (3).

Assistant Professor FOLSOM, Dr. GLASGOW

**8a-8b. Advanced Economic Entomology.**—Field, laboratory, insectary, library, and manuscript work on insects affecting live stock, cereal crops, fruit and garden crops, forest and shade trees and greenhouse or other ornamental plants. Especially intended to give the student of agriculture or horticulture ample preparation in the entomology of any one or more of these groups. Recommended also to prospective county advisors and to those preparing for service as professional entomologists. *I, II*; (3).

Assistant Professor FOLSOM

*Prerequisite:* Entomology 4.

**16. Apiculture.**—The essentials of bee-keeping. Practical operations; laboratory observations; collateral reading. *II*; (2).

Assistant Professor FOLSOM

**13. Insects and Disease.**—Insects and their allies which cause or transmit disease. Relation to public health. Recognition and control. (For pre-medical students, and for those interested in problems of state, municipal, and home sanitation). Lectures; assigned reading; practical demonstrations. *I, II; (2).* Dr. GLASGOW

*Prerequisite:* Sophomore standing.

**14. Medical Entomology.**—Practical technic, methods employed in the study of arthropods which cause or transmit disease, and of disease-producing organisms disseminated by arthropods. (For pre-medical students and those taking entomology as a major; registration limited to ten students.) Laboratory; assigned reading; demonstrations. *I; (2).* Dr. GLASGOW

*Prerequisite:* Entomology 13, or registration in 13.

**5. Introduction to Research.**—Library, language, manuscript, and advanced laboratory work on assigned topics. Intended as a preparation for entomological thesis work. *I or II; (3).* Professor MACGILLIVRAY, Assistant Professor FOLSOM

*Prerequisite:* Entomology 1a, 2, or 4, 8 or 1b, 7.

**6a-6b. Thesis Investigation.**—Subject selected during the junior year. Three hours a day given to investigation, under the supervision of an instructor during the senior year. *I, II; (5).* Professor MACGILLIVRAY, Assistant Professor FOLSOM

*Prerequisite:* Entomology 5.

#### Courses for Advanced Undergraduates and Graduates

**10a-10b. Taxonomy of Immature Insects.**—Their anatomy and classification. *I, II; (3).* Professor MACGILLIVRAY

*Prerequisite:* Entomology 7 or 18a; senior standing.

**11b. Classification of the Coccidae.**—The preparation, morphology, and identification of scale insects. *II; (3).* Professor MACGILLIVRAY

*Prerequisite:* Entomology 7 or 18a; senior standing.

**18a-18b. Insect Taxonomy.**—Structures used in the classification of insects and the identification of a representative collection of insects. Laboratory. *I, II; (5).* Professor MACGILLIVRAY

*Prerequisite:* Three years of university work.

#### Courses for Graduates

**102. Research in the Morphology and Embryology of Insects.**—*Twice a week. I, II; (1 or 2 units).* Assistant Professor FOLSOM

**108. Research in Economic Entomology.**—*Twice a week. I, II; (1 or 2 units).*

Assistant Professor FOLSOM

**109. Research in Systematic Entomology.**—*Twice a week. I, II; (1 or 2 units).*

Professor MACGILLIVRAY

#### Summer Session Courses

##### Courses for Undergraduates

**S1. General Entomology.**—Introduction to the study of insects in field and laboratory. *(2).* Assistant Professor FOLSOM, Dr. GLASGOW

**S3. Economic Entomology.**—Life history and habits of the commoner injurious insects. Methods of control. (1). Dr. GLASGOW

*Prerequisite:* May be taken only by students registered at the same time in course S1.

*Equivalent:* (Together with S1) Entomology 4.

**S5. Insects of the Vegetable Garden.**—Practical studies of habits, development, and control of insects affecting vegetables. (2). Assistant Professor FOLSOM

**S9. Insect Materials for Teachers of Biology.**—(1). Dr. GLASGOW

*Prerequisite:* One year's experience in teaching biology, or junior standing in the University. May be taken only by students registered at the same time in course S1 or who have had an equivalent of that course.

### Courses for Advanced Undergraduates and Graduates

**S2. Advanced Course.**—Instruction to meet the purposes of the individual student. Assistant Professor FOLSOM

### Courses for Graduates

**S108. Research in Economic Entomology.**—Twice a week; arrange. (1 or 2). Assistant Professor FOLSOM

## FARM ORGANIZATION AND MANAGEMENT

WALTER FREDERICK HANDSCHIN, B.S., *Professor and Head of the Department*

EMIL RAUCHENSTEIN, B.S., *Associate*

WALTER JOHN ROTH, B.S., *Instructor*

FOSTER FLOYD ELLIOTT, M.S., *Assistant*

CLARENCE ALFRED BONNEN, B.S., *Assistant*

LENA CECILIA RHUE, B.S., *Assistant*

**1. Elementary Farm Management.**—The factors of production in the farm business; types of farming, their distribution and adaptation; farm organization, the distribution of capital invested, planning of the farm; farm administration or operation, planning of work, handling of labor, development of management efficiency. Lectures; quiz. A field trip is required in this course. The class will visit some of the farms included in the cost accounting investigations being carried on by the department in various sections of the state. The trip will cost about \$20.00. II; (3).

Professor HANDSCHIN, Mr. RAUCHENSTEIN

*Prerequisite:* Three semesters of required work; Economics 1 or 2 and Accountancy 1 or 11. It is also very important that the student have credit or be registered in Agronomy 12, and have at least six hours credit in Animal Husbandry 1b, 2b, 4b, or 11b.

**5. Farm Organization.**—The economic organization of different types of farming with special reference to their financial, physical, and productive organization. II; (3). Professor HANDSCHIN

*Prerequisite:* Farm Management 1.

## FINE ARTS

(See ART AND DESIGN AND MUSIC. Attention is also called to the courses in ESTHETICS offered by the departments of PHILOSOPHY, EDUCATION, ARCHITECTURE, and HOME ECONOMICS).

## FLORICULTURE

(See HORTICULTURE)

## FRENCH

(See ROMANCE LANGUAGES AND LITERATURE.)

## GEOLOGY

CHARLES WESLEY ROLFE, M.S., *Professor, Emeritus*

WILLIAM SHIRLEY BAYLEY, Ph.D., *Professor*

THOMAS EDMUND SAVAGE,<sup>1</sup> Ph.D., *Professor*

TERENCE THOMAS QUIRKE, E.M., Ph.D., *Associate Professor, Chairman*

MORRIS MORGAN LEIGHTON, Ph.D., *Assistant Professor*

ALYDA CAREN HANSON, B.S., *Instructor (Geography)*

WALTER JAMES YEATON, A.B., *Instructor*

JOHN EVERTS LAMAR, B.S., *Instructor*

HAZEL KEITH FORBES, A.B., *Assistant (Geography)*

## A. GENERAL GEOLOGY

**Major:** Geology 1, or Geography 1, followed by 20 hours of courses that have prerequisites in the department, except that Geography 14 may be included. For students whose major is made up of courses in Geography, the following sequence is recommended: Geography 1 or 2, 3, 4, 7, 14, and 8 or 10.

**Minors:** 20 hours selected from courses in any one or two of the following departments: astronomy, botany, chemistry, entomology, physics, and zoology, after consultation with the department of geology. For those students whose major work is in Geography, selection of the minor may be made from one or more of the following subjects: economics, education, history, sociology, and the biological sciences.

For the convenience of underclassmen in the College of Liberal Arts and Sciences who elect the minimum major work in geology the following sequence of courses is suggested: first year, 1 and 1a; second year, 47, 9, 48, 16, 19; third year, 23.

For those who plan to become professional geologists, the following courses should be added: 6, 7, 51, 52, 42, 42a, 15, 15a, 95, 96.

## Courses for Undergraduates

**1. Physiography.**—The surface features of the earth with emphasis on their origin and significance; the agencies and processes of geologic change; the effects of composition, hardness and structure of rocks on the evolution of topographic forms; and the elements of meteorology and oceanography; the common rocks and minerals. Lectures, laboratory work and quiz; two field trips. (Students who have had Geography 1, will receive only 3 hours credit.) *I* or *II*; (5).

Associate Professor QUIRKE, Assistant Professor LEIGHTON, Mr. YEATON, Mr. LAMAR.

**1a. Historical Geology.**—The evolution of the earth and its life. Lectures; laboratory (continuing course 1). *I* or *II*; (3).

Associate Professor QUIRKE, Assistant Professor LEIGHTON

*Prerequisite:* Geology 1.

**20. General Mineralogy.**—Study of the most common minerals of economic and scientific importance; blow-pipe analysis. (Primarily for engineers and chemists.) Quiz; laboratory. *I* or *II*; (3).

Mr. YEATON

*Prerequisite:* Chemistry 1 and 2, or equivalent.

**92. Mineral Resources.**—*II*; (2).

Professor BAYLEY

*Prerequisite:* Geology 1 or Geography 1.

**9. Invertebrate Paleontology.**—The more important fossil groups in biological sequence. Lectures; laboratory. *I*; (3).

Associate Professor QUIRKE

*Prerequisite:* Geology 1a.

<sup>1</sup>On leave of absence.

**43. Engineering Geology.**—The general principles and broader facts of geology from the engineering viewpoint. Discussions; laboratory. *II*; (3).

Associate Professor QUIRKE

*Prerequisite:* Freshman work in the College of Engineering.

**47. Systematic Mineralogy.**—Identification of common minerals (mainly non-silicates) by physical tests and crystal form. Crystallography, principles of classification. Lectures; laboratory. *I*; (3):

Professor BAYLEY

*Prerequisite:* Chemistry 1 and 2, or equivalent, and, except for mining and chemistry students, Geology 1a.

#### Courses for Advanced Undergraduates and Graduates.

**48. Silicate Minerals.**—(A continuation of Geology 47.) The silicate minerals. Quiz; laboratory. *II*; (3).

Professor BAYLEY

*Prerequisite:* Geology 47.

**16. Stratigraphy.**—The study of fossil faunas, with special reference to Paleozoic invertebrates; principles of correlation and stratigraphy. *II*; (5).

Associate Professor QUIRKE

*Prerequisite:* Geology 9.

**6. Optical Mineralogy.**—Introduction to the microscopic study of minerals, by means of their behavior in polarized light. Two lectures; four hours laboratory. *I*; (3).

Professor BAYLEY

*Prerequisite:* Geology 48.

**7. Petrography.**—The principles learned in Geology 6 applied to the study of rocks. The different types of rocks; their origin and classification. Study of representative suite of specimens in the hand specimen and thin section. *II*; (3).

Professor BAYLEY

*Prerequisite:* Geology 6.

**[42. Stratigraphic Paleontology.**—The invertebrate index fossils of the successive geologic formations, from the Cambrian to the Tertiary. *I*; (5). Not given in 1920–21.

Professor SAVAGE

*Prerequisite:* Geology 16 and senior standing.]

**[42a. Stratigraphic Paleontology.**—(A continuation of Geology 42.) Field trip of 1–2 weeks required during the semester. *II*; (5). Not given in 1920–21.

Professor SAVAGE

*Prerequisite:* Geology 42.]

**23. Physiography of the United States.**—An interpretative study of the physiographic development of the United States by provinces, followed by general correlative studies and a consideration of the problems awaiting research. Lectures, discussions, reference reading, and map work. *II*; (3).

Assistant Professor LEIGHTON

*Prerequisite:* Physiography and Elementary Historical Geology. Advanced Dynamic Geology and Advanced Historical Geology recommended.

**96. Economic Geology.**—The nature, occurrence, origin, and uses of coal, oil, building stones and bedded deposits of economic importance. Lectures, quizzes, and laboratory. *I*; (3).

Professor BAYLEY

*Prerequisite:* Geology 1a or 43 and 20 or 48.

**96. Economic Geology.**—The nature, occurrence, and origin of metaliferous deposits. Theories of ore deposition. *II*; (3).

Professor BAYLEY

*Prerequisite:* Geology 1a or 43 and 20 or 48.

## Courses for Graduates

For graduate work in geology the student must have a thoro training in the principles of the science, (except in unusual cases, which will be decided on their merits); at least 20 hours of geology and two or more weeks of field experience will be required. Graduate students with adequate technical preparation in other sciences may be admitted to graduate courses in certain subjects, such as crystallography. Courses 48, 6, 7, 15, 15a, 16, 42, 42a, 60, 51, 52, 23 may be offered as graduate work by students who have other credits for at least 20 hours of geology.

**101. Advanced Crystallography.**—Methods used in measuring, projecting, and calculating crystal forms, and determining the physical properties of crystallized bodies. Twice a week; *I, II*; (1 unit). *Time to be arranged.* Professor BAYLEY

**135. Research.**—Individual work under the supervision of members of the staff in their respective fields. *Once a week; I, II; (½ to 4 units).*

Members of the department

## B. GEOGRAPHY

## Courses for Undergraduates

**1. Principles of Geography.**—The development and effects of physical features upon life; the effects of climate, drainage, natural resources, shape, size, and location, upon the home of man; his political, industrial, and social interests. Four hours lecture; two hours laboratory; one or two field trips. (Students who have had Geology 1 will receive only three hours credit.) *I or II*; (5). Miss FORBES

**2. Human Geography.**—Geographic factors, topography, climate, drainage, location, size, shape, and natural resources in their relation to man; as they affect his activities in production and trade; in his social and political intercourse. Discussions, laboratory. *I or II*; (5). Miss HANSON

*Prerequisite:* Geology 1.

**3. Industrial and Commercial Geography.**—The geographic conditions affecting the industries, production, and commerce of the world; the development and relations of great commercial areas to the location and availability of great resources; markets and transportation routes. *II*; (5). Miss HANSON

*Prerequisite:* Geography 2 or 1.

**4. Geography of North America.**—Influences of geographic factors on the countries of North America. Lectures; reading and map study. *I*; (3). Miss HANSON

*Prerequisite:* Geography 1 or 2.

**[5. South America.**—A study of the world relations of South America: the influence of climate, drainage, topography, size, shape, and natural resources of South America, upon the settlement and economic development of South American countries. South American countries as markets for foreign trade. *II*; (3). Not given in 1920-21.

Miss HANSON

*Prerequisite:* Geography 3.]

**7. Field Geography.**—Local geography as based upon field work; the influences of topography, drainage, regional location, and natural resources upon the economic development of the areas investigated. The field selected for study in 1921 is the Ozark Mountain area of Southern Illinois. *II*; (5). Miss HANSON

*Prerequisite:* Geography 1 or 2.

[10. **Geography of Europe.**—Effect of the physiographic features of Europe on its climate, resources, inhabitants, and their activities. *II*; (3). Not given in 1920-21.

MISS HANSON

*Prerequisite:* Geography 3.]

14. **Weather and Climate.**—The atmosphere and its processes; weather and forecasting; causes and distribution of climates. *I*; (3).

MISS HANSON

## GERMANIC LANGUAGES AND LITERATURE

JULIUS GOEBEL, Ph.D., *Professor*

OTTO EDUARD LESSING, Ph.D., *Professor*

NEIL CONWELL BROOKS, Ph.D., *Assistant Professor*

LEONARD BLOOMFIELD,<sup>1</sup> Ph.D., *Assistant Professor, Comparative Philology and German*

CHARLES ALLYN WILLIAMS, Ph.D., *Assistant Professor*

ARMIN HAJMAN KOLLER, Ph.D., *Assistant Professor*

BERNARD ALEXANDER UHLENDORF, Ph.D., *Instructor*

**Major:** 20 hours in German, excluding German 1, 2, and 3, and including at least 6 hours of primarily fourth-year courses.

**Minors:** 20 hours in not more than two subjects chosen from the following list: languages, education, history, philosophy, and psychology, provided that 8 hours must be selected from a language other than German.

### First-Year Courses

1. **Elementary Course.**—Grammar and easy reading for beginners. *I*; (4).

Professor LESSING, Assistant Professor BROOKS, Assistant Professor BLOOMFIELD, Assistant Professor KOLLER, Dr. UHLENDORF.

*Prerequisite:* Not open to students who have had high-school work in this language.

2. **Narrative Prose.**—Grammar and reading. *I*; (4).

Assistant Professor BLOOMFIELD

*Prerequisite:* One year of high-school German or German S1, or German 1.

NOTE.—Students who have had no German for one year or more will be required to take a written test before entering German 2. This will be regarded as a *test of present ability in German* and not as an examination on any particular course previously taken in this subject.

3. **Narrative Prose.**—(Continuation of German 1.) Reading and grammar. *II*; (4)

Professor LESSING, Assistant Professor BROOKS, Assistant Professor KOLLER, Dr. UHLENDORF.

*Prerequisite:* German 1 or equivalent demonstrated by examination.

### Second-Year Courses

4. **Prose Reading.**—Selections from standard prose writers; sight reading; composition. *I* or *II*; (4).

Assistant Professor BROOKS, Assistant Professor WILLIAMS, Assistant Professor KOLLER, Dr. UHLENDORF.

*Prerequisite:* German 2 or 3, or two years of high-school German, or equivalent demonstrated by examination.

<sup>1</sup>Resigned, January 31, 1921

**5. Narrative and Historical Prose.**—At the option of the instructor one classic in verse may also be read. Composition. *I* or *II*; (4).

Assistant Professor BROOKS, Assistant Professor WILLIAMS

*Prerequisite:* German 4, or three years of high-school German, or equivalent demonstrated by examination.

**6. Scientific German.**—The rapid reading of works of a general scientific character. Section A is primarily for students in the curriculums in chemistry and chemical engineering (Parallel with 5. Students may not take both 5 and 6 for more than a total of four hours' credit without special permission of department.) *I* or *II*; (4).

Assistant Professor WILLIAMS, Assistant Professor KOLLER

*Prerequisite:* German 4, or three years of high-school German, or equivalent demonstrated by examination.

### Third-Year Courses

**7. Modern Fiction.**—(Intended primarily for students who take 5 in the first semester. Not open to those who have had any course more advanced than 5.) *II*; (3).

Assistant Professor BROOKS

*Prerequisite:* German 5 or equivalent.

**10. Introductory Goethe Course.**—Reading of works illustrating different periods in Goethe's development; *Goetz von Berlichingen*; *Egmont*; *Iphigenie auf Tauris*; selections from *Dichtung und Wahrheit*. *II*; (3).

Assistant Professor BROOKS

*Prerequisite:* Two and one half years of college German or equivalent.

**16. Elementary Composition and Conversation.**—*I*; (2).

Dr. UHLENDORF

*Prerequisite:* German 5 or equivalent.

**17. Intermediate Composition and Conversation.**—*II*; (3).

Assistant Professor KOLLER

*Prerequisite:* German 16.

**24a-24b. Modern German Drama.**—Rapid reading of dramas by Grillparzer, Hebbel, Hauptmann, and others. *I, II*; (3).

Professor LESSING

*Prerequisite* (for 24a): German 5 or equivalent.

**28a-28b. German Lyrics and Ballads.**—Their form, development, and various types: the *Volkslied* of the eighteenth and nineteenth centuries and its influence. First semester: the early eighteenth century and the classical period. Second semester: the nineteenth century. (The first semester may be taken separately, but not the second without the first.) *I, II*; (2).

Assistant Professor WILLIAMS

*Prerequisite* (For 28a): German 5, or equivalent, and sophomore standing.

### Courses for Advanced Undergraduates and Graduates

NOTE.—For a major in German students are required to take at least six hours of these primarily fourth-year courses; seniors who are preparing to teach German should take German 29.

**[8. Schiller.**—The life of Schiller; *Wallenstein* and other selections. *II*; (2). Not given in 1920-21.

Professor LESSING]

**19a-19b. Goethe's Faust.**—The Faustlegend and early Faust books and plays; the genesis of Goethe's Faust; reading of both parts. *I, II*; (3).

Professor GOEBEL

*Prerequisite* (For 19a): three years of college German or equivalent.



[25. **Teachers' Course.**—Not given in 1920-21. Assistant Professor KOLLER]

26a. **German Literature to the End of the Reformation.**—Lectures; recitations; reports on assigned reading. *I*; (3). Professor LESSING

*Prerequisite:* Three years of college German or equivalent.

26b. **German Literature Since the Reformation.**—Lectures; recitations; reports on assigned collateral reading. *II*; (3). Professor LESSING

*Prerequisite:* German 26a.

[27. **Lessing.**—Not given in 1920-21. Professor LESSING]

[29. **Advanced Composition.**—Not given in 1920-21.]

30a-30b. **Thesis Course.**—(Intended primarily for candidates for honors in German, but open to other seniors.) *I, II*; (1 or 2).<sup>1</sup> Professor GOEBEL and others

*Prerequisite:* Senior standing and three years of college German or equivalent.

31. **Middle High German.**—*I*; (3). Professor GOEBEL

*Prerequisite:* Senior or graduate standing; three years of college German.

[32. **History of German Civilization.**—Readings; lectures; discussions. *I*; (3). Not given in 1920-21. Assistant Professor BROOKS]

39a-39b. **Goethe and Schiller.**—Interpretation of Goethe's poems. Goethe's *Tasso*; Schiller's *Ueber naive und sentimentalische Dichtung*. *I, II*; (2). Professor GOEBEL

### Courses for Graduates

Students desiring to take German as a major should have completed a four years' course of undergraduate study in German, corresponding to the four years' course at this University, and should be familiar with the principal works of the writers of the classical and modern periods of German literature, show a general knowledge of the history of German literature, and be able to follow lectures in the German language.

A reading knowledge of Latin and French is required. It is desirable that candidates for the degree of Ph.D. have some knowledge of Greek. All students are expected to have had a course in German history.

101. **Seminar in Germanic Philology.**—Training in original research; results of special value may be published in the *Journal of English and Germanic Philology*. *Once a week*; *I, II*; (1 unit). Professor GOEBEL

103. **Introduction to the Historical Study of the Germanic Languages.**—History of German philology; comparative grammar of the Old Germanic dialects. Lectures; discussions of special topics. *Twice a week*; *II*; (1 unit). Professor GOEBEL

[104. **Gothic.**—Grammar and literature. *Twice a week*; *I*; (1 unit). Not given in 1920-21. Professor GOEBEL]

[105. **Old High German.**—Grammar and interpretation of the oldest literary documents. *Three times a week*; *II*; (1 unit). Not given in 1920-21.

Assistant Professor WILLIAMS]

[109. **Goethe's and Schiller's Philosophy.**—*Twice a week*; *I, II*; (1 unit). Not given in 1920-21. Professor GOEBEL]

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not 2-5 but 2 or 3, or 4, or 5.

- [110. Early German Drama.—*Twice a week; I; (1 unit)*. Not given in 1920-21.  
Assistant Professor BROOKS]
- [113. German Literature of the Fifteenth and Sixteenth Centuries.—*Twice a week; II; (1 unit)*. Not given in 1920-21.  
Assistant Professor BROOKS]
115. History of German Literature of the Nineteenth Century.—*Twice a week; I, II; (1 unit)*.  
Professor LESSING
- [116. Medieval German Literature with Reference to Political, Religious, and Social History—Research. *Twice a week; I; (1 unit)*. Not given in 1920-21. Professor LESSING]
- [117. History of German Literature During the Eighteenth Century.—*Twice a week; I, II; (1 unit)*. Not given in 1920-21.  
Professor GOEBEL]
- [118. The German Drama Since Schiller.—*Twice a week; I, II; (1 unit)*. Not given in 1920-21.  
Professor LESSING]
- [119. The German Novel.—Research. *Twice a week; I, II; (1 unit)*. Not given in 1920-21.  
Professor LESSING]
121. Walter von der Vogelweide.—*Twice a week; II; (1 unit)*. Professor GOEBEL
- [121a. The Nibelunglied.—Lectures and interpretations. *Twice a week; II; (1 unit)*. Not given in 1920-21.  
Professor GOEBEL]
- [121b. Gudrun.—Lectures and interpretations. *Twice a week; II; (1 unit)*. Not given in 1920-21.  
Professor GOEBEL]

### Summer Session Courses

#### Courses for Undergraduates

- S4. Prose Reading.—Narrative prose, sight reading; composition. (2).  
Dr. KOLLER  
*Prerequisite:* German 3 or two years of high-school German.  
*Equivalent:* German 4 (in part).
- S6. Scientific Prose.—The rapid reading of works of a general scientific character.  
Dr. KOLLER  
*Prerequisite:* German 4 or three years of high-school German.  
*Equivalent:* German 6 (in part).
- S16. Composition and Conversation.—(1).  
Dr. KOLLER  
*Prerequisite:* Two years of university German or an equivalent.  
*Equivalent:* German 16 (in part).

### GREEK

(See CLASSICS)

### HEBREW

(See ORIENTAL LANGUAGES AND LITERATURE)

### HISTOLOGY

(See PHYSIOLOGY)

## HISTORY

LAURENCE MARCELLUS LARSON, Ph.D., *Professor*

EVARTS BOUTELL GREENE,<sup>1</sup> Ph.D., *Professor*

ALBERT HOWE LYBYER, Ph.D., *Professor*

ALBERT TEN EYCK OLMSTEAD, Ph.D., *Professor*

WILLIAM SPENCE ROBERTSON, Ph.D., *Professor*

PAUL VAN BRUNT JONES, Ph.D., *Assistant Professor*

THEODORE CALVIN PEASE, Ph.D., *Assistant Professor*

FREDERICK CHARLES DIETZ, Ph.D., *Assistant Professor*

JAMES GARFIELD RANDALL, Ph.D., *Assistant Professor*

JOSEPH WARD SWAIN, Ph.D., *Instructor*

JAMES EDWARD GILLESPIE, Ph.D., *Instructor*

MARY WINSHIP KINGSLEY, A.M., *Assistant*

*Cooperating:*

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor of the Classics*

PITMAN BENJAMIN POTTER, Ph.D., *Associate in Political Science (Summer Session)*

ROYAL B WAY, Ph.D., *Professor of History, Beloit College (Summer Session)*

**Major:** 20 hours, excluding History 1a and 2a, and including (a) either History 1b or 2b; (b) six hours selected from courses for advanced undergraduates and graduates; and (c) any other courses offered in the department.

**Minors:** 20 hours, selected from two of the following subjects: economics, political science, law, sociology, the history of any literature, history of education, philosophy, and physiography. Courses in any foreign language may be accepted in satisfaction of this requirement, if the student can show his ability to read ordinary historical prose in that language. In every case the minor courses must include either Economics 1 or Political Science 1 and 3.

## Courses for Undergraduates

**1a-1b. Continental European History.**—Europe from the fifteenth century to the present time. (Either semester may be taken separately.) *I, II; (4 or 3).*<sup>2</sup>

Professor LYBYER, Professor OLMSTEAD, Assistant Professor JONES, Dr. SWAIN, Dr. GILLESPIE, Miss KINGSLEY.

**2a-2b. English History.**—First semester: political history of England in 1660; the larger social, economic, and religious movements. Second semester: the modern history of England to the outbreak of the Great War; colonial and imperial development. *I, II; (3 or 2).*<sup>3</sup>

Professor LARSON, Assistant Professor DIETZ, Dr. SWAIN, Dr. GILLESPIE

**3a-3b. History of the United States.**—First semester: the colonies in 1750; the French War and the Revolution; the genesis of the Federal Constitution; development under the Constitution to 1815. Second semester: a century of national development, 1815-1919. (Either semester may be taken separately.) *I, II; (3).*

Professor GREENE, Professor ROBERTSON, Assistant Professor RANDALL

*Prerequisite:* One year of college work.

**5. History of Greece.**—*I; (3).* (See Greek 20.)

Professor OLDFATHER

*Prerequisite:* One college course in history or the classics; sophomore standing.

**6. History of Rome.**—*II; (3).* (See Latin 19.)

Professor OLDFATHER

<sup>1</sup>On leave of absence, second semester.

<sup>2</sup>Three credits for seniors; four credits for students other than seniors.

<sup>3</sup>Two credits for seniors; three credits for students other than seniors.

**[8a-8b. Western Europe in the Middle Ages.**—First semester: from Constantine to Charlemagne. Second semester: from Charlemagne to Dante. *I, II; (3).* Not given in 1920-21. Assistant Professor JONES

*Prerequisite:* One year of college work. Not open to students who have had 1a.]

**18. The Teaching of History.**—Preparation of students for the teaching of history in secondary schools. *II; (2).* Assistant Professor RANDALL

*Prerequisite:* History 1a-1b, 3a-3b, or their equivalent; senior standing.

**28a-28b. Thesis.**—Special training in investigation for candidates for honors and for other seniors. *I, II; (2).* Professor ROBERTSON

**50a-50b. The Ancient World.**—First semester: the prehistoric age and the ancient empires. Second semester: Greece and Rome. *I, II; (3).* Professor OLMSTEAD

*Prerequisite:* Sophomore standing.

**51a-51b. Hebrew History.**—A general history of the Hebrew people to the revolt under Hadrian; source problems, as they relate to Biblical criticism. An attempt will be made to correlate the Biblical history with the general history of the times. *I, II; (2).*

Professor OLMSTEAD

*Prerequisite:* Junior standing.

#### Courses for Advanced Undergraduates and Graduates

(Open to seniors and to juniors of high standing. The ability to use modern languages is desirable.)

**4a-4b. The Constitutional History of England.**—First semester: institutional origins. Second semester: modern constitutional practise. (Important for students specializing in history, political science, or law.) *I, II; (3).* Professor LARSON

*Prerequisite:* One year of college history.

**9a-9b. The Renaissance and the Reformation.**—The transition from medieval to modern ideals. *I, II; (3).* Assistant Professor JONES

*Prerequisite:* History 1a-1b.

**12. Medieval Civilization.**—The religious, economic, and intellectual development of medieval society. *II; (3).* Professor LARSON

*Prerequisite:* One year of college history (English or general European).

**[14a-14b. The History of American Political Ideals.**—*I; (3).* Not given in 1920-21.

Professor GREENE

*Prerequisite:* History 3.]

**15. The Civil War and the Reconstruction.**—The ante-bellum South and its destruction, 1844-70. The Civil War in the light of the forces which tended to hasten or obstruct the clash of arms. *I; (3).* Assistant Professor RANDALL

*Prerequisite:* History 3a-3b.

**[19. France in the Feudal and Later Middle Ages.**—(A reading knowledge of French is desirable.) *II; (3).* Not given in 1920-21. Dr. JONES

*Prerequisite:* History 1a-1b.]

**[20a. Europe Before the Great War.**—National reorganization, material progress, and world-wide expansion, 1848 to 1891. *I; (3).* Not given in 1920-21.

Professor LYBYER

*Prerequisite:* One year of college history, economics, or political science.]

[20b. **The Great War.**—The history of Europe, 1891 to 1914, with special reference to the formation of alliances and the development of causes of conflict; the history of the war itself. *II*; (3). Not given in 1920–21. Professor LYBYER

*Prerequisite:* One year of college history, economics, or political science.]

21. **Recent History of the United States.**—Historical introduction to contemporary American politics; economic, political, and social problems; international relations; the United States in the Great War. *I*; (3). Professor ROBERTSON

*Prerequisite:* History 3b.

22. **The Old Northwest, 1787–1865.**—The settlement of the northwest; western economic, political, and social problems; influence of the West on national policies. *I, II*; (3). Assistant Professor PEASE

*Prerequisite:* History 3.

23a–23b. **England in the Seventeenth and Eighteenth Centuries.**—First semester: the influence of Puritanism on the institutions of modern England and America. Second semester: Whigs and Tories, 1672–1783. English politics and political thought considered as a background to political theory in the American Revolution. *I, II*; (2).

Assistant Professor PEASE

24. **European Consolidation and Colonial Expansion, 1648–1789.** *I*; (3).

Professor LYBYER

*Prerequisite:* One year of college history, economics, or political science.

25. **The French Revolution, Napoleon, and the European Reaction, 1789–1848.** *II*; (3). Professor LYBYER

*Prerequisite:* One year of college history, economics, or political science.

26. **History of the Latin-American Colonies.**—Political, economic, social, and intellectual life in Spain and Portugal during the age of discovery. The colonization, administration, and civilization of Latin America and the Philippines. The independence of Brazil and the Spanish-American republics. *I*; (3). Professor ROBERTSON

*Prerequisite:* One year of college history.

27. **History of Latin America from the Wars of Independence to the Present Time.**—The national history of the leading Latin-American nations with special attention to existing governments, political parties, present economic and social conditions, and relations with the United States. *II*; (3). Professor ROBERTSON

*Prerequisite:* One year of college history.

[29. **The Far East.**—The contact of Western nations with the Far East from the sixteenth century to the present time. *II*; (2). Not given in 1920–21.

Professor GREENE

*Prerequisite:* One year of college history, economics, or political science, and senior standing.]

[30a–30b. **The Ottoman Empire and the Question of the Near East.**—The rise and greatness and the beginning of the decline of the Turkish power, 1300 to 1792. Turkey since 1792, with special attention to internal conditions, international relations, and the antecedents of the Great War. *I, II*; (2). Not given in 1920–21. Professor LYBYER]

40. **The History of the British Commonwealth.**—The expansion of England; imperial organization; the development of the colonial nations. *I*; (2). Professor LARSON

*Prerequisite:* One year of college history.

**[52. East and West in Ancient Times.**—(Continuation of History 50.) Persia, Parthia, and the Sassanids, to the Moslem conquest; the Eastern Question; interrelation of East and West. *II*; (3). Not given in 1920–21. Professor OLMSTEAD

*Prerequisite:* Junior standing, including History 5, 6, or 50.]

**53. Assyrian History.**—The Assyrian Empire; sources; political thought; government of dependencies; parallels to more modern imperial states; economic life. *II*; (3). Professor OLMSTEAD

*Prerequisite:* Senior standing and the consent of the instructor.

**60. The United States in the Great War.**—A study of the course of the United States in the war (both as a neutral and as a participant) with particular attention to economic mobilization and to the administrative features of the American war government. *II*; (3). Assistant Professor RANDALL

*Prerequisite:* History 3b.

### Courses for Graduates

Graduate work in history presupposes two years of college work in this subject, or sixteen semester hours, which should include courses in European and American history corresponding roughly to History 1a-1b and 3a-3b in this University. Linguistic preparation, especially in French and German, is important. For medieval history some knowledge of Latin is essential, and Spanish is useful for certain fields of American history.

Advanced courses in history at the University of Illinois are of three kinds:

(1) For information and guidance in general reading. (2) Instruction in methodology, historiography, and bibliography. A part of this work (in course 103) is required of all graduate students in history during their first year. (3) Seminar courses for the study of special fields with a view to training in the methods of historical criticism and research.

**Illinois Historical Survey.**—Students have an opportunity to pursue research in western history in connection with the Illinois Historical Survey, an organization for the purpose of carrying on systematic studies in the history of Illinois.

Attention is also called to the fact that the University of Illinois has for some time cooperated with the Trustees of the State Historical Library, in the gathering and editing of archive material. As a result instructors and graduate students in the department have contributed from time to time to the publications of the Library, and have been given useful training in the study of manuscript as well as printed material.

**101. Seminar in American History.**—Bibliography; solution of typical problems. *I*, *II*; (1 to 2 units).

In connection with this course, direction in research is offered as follows:

A. American history before 1815.

Professor GREENE

B. American history since 1815.

Professor ROBERTSON, Assistant Professor RANDALL

C. The history of the West.

Assistant Professor PEASE

D. American church history.

Professor GREENE

E. Latin-American history.

Professor ROBERTSON

**102. Studies in English History.**—Selected problems from the history of England in later middle ages or the early modern period. *I*, *II*; (1 unit). Professor LARSON

**103. Historiography and Historical Method.**—The technic of historical investigation. Required of all candidates for an advanced degree in history who do not present evidence of similar training elsewhere. *Twice a week*; *I*; ( $\frac{1}{2}$  unit). Assistant Professor RANDALL

**104. Seminar in English and Continental European History.**—Studies in the expansion of Europe; bibliography, historiography, and selected problems; reports on researches. *I, II: (1 to 2 units).*

In connection with this course, direction in research is offered as follows:

- |  |                                    |
|--|------------------------------------|
| A. Medieval history.                     | Professor LARSON                   |
| B. Modern History of Continental Europe. | Professor LYBYER                   |
| C. English history.                      | Professor LARSON                   |
| D. Renaissance and Reformation.          | Assistant Professor JONES          |
| E. Asiatic Relations.                    | Professor GREENE, Professor LYBYER |

**111. Spanish-American Relations.**—The relations of the Latin-American States with the United States. An intensive study of such topics as the Monroe Doctrine, the development of international trade, etc. *Once a week; I, II. (1 unit).* Professor ROBERTSON

**[112. Studies in American Religious History.**—Questions of Church and State. *Twice a week; II; (1 unit).* Not given in 1920–21. Professor GREENE]

**150. Research in Ancient Oriental History.**—*I, II; (1 unit).* Professor OLMSTEAD

#### Summer Session Courses

#### Courses for Undergraduates

**S1a. Europe, 1500-1763.** The foundations of modern Europe as laid in the sixteenth century; political and social development to the eve of the French Revolution. (2).

Dr. SWAIN

*Equivalent:* The first third of History 1.

**S2a. The Political and Social History of England to 1660.**—(3).

Dr. SWAIN

*Equivalent:* History 2a.

**S3a. American History, 1750-1815.**—(3).

Professor WAY

*Prerequisite:* Sophomore standing.

*Equivalent:* History 3a.

**S18. The Teaching of History.**—Weekly conferences with special reference to the problems of secondary schools. (1), (for those who do the required reading.)

Professor LARSON and others

*Prerequisite:* Senior standing or the consent of the instructor.

#### Courses for Advanced Undergraduates and Graduates

(At least junior standing is required for all the courses in this group.)

**S42. The History of England and the British Commonwealth, 1868-1920.**—(3).

Professor LARSON

*Prerequisite:* Junior standing, including one year of college work in history.

**S43. The History of American Diplomacy.**—(2½). (Not available for credit for students who have had Political Science 7).

Dr. POTTER

*Prerequisite:* Junior standing, including one college course in American history.

**S44. The History of the Frontier in American History to 1840.**—(2).

Professor WAY

*Prerequisite:* Junior standing, including one college course in American history.

## Courses for Graduates

S101. Research in American History.—( $\frac{1}{2}$ -1 unit).

Professor WAY

S102. Seminary in English History.—Selected problems in the Tudor period; discussion of the technic and methods of historical investigation. ( $\frac{1}{2}$  unit).

Professor LARSON

## HOME ECONOMICS

ISABEL BEVIER, Ph.M., D.Sc., *Professor and Director*EMMA LOUISE WARDELL, M.S., *Assistant Professor*JULIET LITA BANE, M.S., *Assistant Professor*FANNIE MARIA BROOKS, A.B., *Assistant Professor*FLORENCE HELEN CHURTON, B.S., *Associate*ALICE LEORA EDWARDS, A.M., *Associate*RUTH GUENTHER, A.M., *Associate*ADA ELEANOR HUNT, A.B., *Associate*LYDA BOND, B.S., *Associate*EDA AUGUSTA JACOBSEN, A.M., *Associate*CARLOTTA MARKS FORD, A.B., *Associate*HESTER ANN ALLYN, A.B., *Associate*VIRGINIA HOYT WEAVER, A.B., *Associate*HELEN E MCCULLOUGH, A.M., *Instructor*MATE LEWIS GIDDINGS, A.B., *Instructor*MARY CECILIA WHITLOCK, B.S., *Instructor*MARGARET HATFIELD, A.B., *Assistant*ALICIA WILHELMINA GATES, *Assistant*FANNIE LEE, A.B., *Assistant*IRENE TEAGARDEN, B.S., *Assistant**Cooperating:*JEAN GILBERT MACKINNON, A.M., *Assistant Professor (Summer Session)*FLORENCE J BEDELL, A.B., *Instructor (Summer Session)*PEARL CRAVEN KENNEY (Mrs.), *Assistant (Summer Session)*JEANNIE VERLE STEINER, A.B., *Assistant (Summer Session)*HELEN CHARLOTTE NEWTON, A.B., *Assistant (Summer Session)*

**Major:** 20 hours from many courses offered by the department, excluding Home Economics 2, 7, and 8, and including Home Economics 3, 5, 6, 10, and 12. To satisfy the requirement for the Major, students transferring from other institutions must take at least one of the following: Home Economics 4, 5, 11, 17, 18, or 28.

**Minors:** 20 hours from either (a) chemistry, bacteriology, and physiology; or (b) economics (a minimum of eight hours), with one or two of the following subjects: art and design, education, history, psychology, and sociology.

**1. Selection and Preparation of Food.**—The nature and uses of foods, their chemical composition; the changes effected by heat, cold, or fermentation; principles of selection, processes of manufacture, combinations. Laboratory fee, \$3.00. *II*; (3).

Miss GUENTHER, Miss HUNT, Miss HATFIELD

*Prerequisite:* Entrance credit in physics; Chemistry 1.

**1a. Selection and Preparation of Food.**—(For those who have had two years' work in foods in secondary schools.) The nature and uses of foods, their chemical composition;



the changes effected by heat, cold, or fermentation; principles of selection, processes of manufacture, combinations. Laboratory fee, \$2.00. *II*; (2).

Miss GUENTHER, Miss HUNT

*Prerequisite:* Entrance credit in physics; Chemistry 1; two years' work in foods in secondary schools; consent of instructor.

**2. Home Architecture.**—Situation, surroundings, and construction of the house; heating, lighting, ventilation, water supply, and drainage; making skeleton plans. *I*; (3).

Assistant Professor NEWCOMB, Assistant Professor PALMER, Assistant Professor STANTON, Miss GATES.

*Prerequisite:* Sophomore standing in the College of Agriculture; junior standing in the College of Liberal Arts and Sciences and the College of Education.

**3. Elementary Home Decoration.**—Theory of color and its application in home decoration; furnishings from a sanitary and artistic standpoint. *II*; (3).

Miss WEAVER, Miss GATES

*Prerequisite:* Art and Design 12; Home Economics 2.

**4. Food and Nutrition.**—Physiological, chemical, and bacteriological problems of food and nutrition. Individual investigation. Laboratory fee, \$8.00. *I*; (5).

Assistant Professor WARDELL

*Prerequisite:* Bacteriology 5; Chemistry 13a, 9, 9c; Home Economics 5.

**5. Dietetics.**—Diet; the relation of food to health; influence of age, sex, and occupation on diet; factors involved in the construction of dietaries. Laboratory fee, \$3.00. *I* or *II*; (3).

Miss EDWARDS

*Prerequisite:* Home Economics 1, 6; Physiology 4.

**6. Economic Uses of Food.**—(Continuation of Home Economics 1.) The economics of the food question; marketing, fuels, preservation, meals. Laboratory fee, \$3.00. *I*; (4).

Miss HUNT, Miss GUENTHER, Miss HATFIELD

*Prerequisite:* Home Economics 1; credit or concurrent registration in Chemistry 2a.

**6a. Economic Uses of Food.**—(For those who have had two or more years of laboratory work in foods in secondary schools.) Laboratory fee, \$2.00. *I*; (2).

Miss HUNT, Miss GUENTHER

*Prerequisite:* Entrance credit in physics; two or more years of laboratory work in foods in secondary schools; credit or concurrent registration in Chemistry 2a; consent of instructor.

**7. Textiles.**—Development of the textile industry from primitive times to the present; study of the important fibers and materials made from them; microscopic examination and chemical tests of fibers and fabrics; practise in working with cotton, linen, wool, and silk materials; weaving. Laboratory fee, \$2.00. *I* or *II*; (3).

Miss McCULLOUGH

**8. Art and Sanitation in Daily Life.**—The application of the principles of art and sanitation in daily life. Required of Home Economics freshmen; not open to others. *I*; (2).

Assistant Professor BROOKS, Miss McCULLOUGH

**9. Problems in Extension.**—Activities and organization of women with special emphasis upon extension work. *II*; (3).

Assistant Professor BANE

*Prerequisite:* Senior standing in Home Economics.

**10. Organization and Management of the Household.**—Housekeeping as a business; organization and management; the income and its apportionment through budgeting; equipment; service. *I* or *II*; (3).

Miss FORD

*Prerequisite:* Home Economics 2, 6, 7; Economics 1 or 2.

**11. Teachers' Course.**—Methods of presenting the work, and its correlation with other subjects. Practise in planning courses and presenting lessons. Two inspection trips are made to other schools, one in April and one in May. The total cost does not exceed \$5.00. Required of all who wish to be recommended to teach Home Economics. *II*; (3).

Miss CHURTON, Miss ALLYN

*Prerequisite:* For non-Smith-Hughes students: Home Economics 5, 12, 13, 34. For Smith-Hughes students: Home Economics 5, 13, 31.

**12. Clothing.**—Demonstrations and laboratory work in methods of drafting, cutting, fitting, and making of garments from individual designs. (Prerequisite to Home Economics 34.) *I* or *II*; (3). (Not offered first semester 1920-21).

Miss McCULLOUGH, Miss WHITLOCK

*Prerequisite:* Home Economics 19. Proof by examination of ability to do plain sewing.

**13. Teachers' Course.**—The development of home economics as one of the factors in the education of women; the work in different types of institutions; the planning of courses for these types. Required of all who wish to be recommended to teach Home Economics. *I*; (3).

Miss CHURTON

*Prerequisite:* Senior standing.

**14. Practise House.**—Planning, preparation, and serving of meals; care of the house, including laundry, with emphasis on cost and organization of work. Conferences and laboratory work in practise apartment and laundry, occupying nine weeks either half of semester. For Smith-Hughes students, this course should alternate with Education 50; for non-Smith-Hughes students, it should alternate with Home Economics 35. Laboratory fee (to cover cost of raw food materials for four weeks), \$13.50. *I* or *II*; (3).

Miss GIDDINGS

*Prerequisite:* Home Economics 5, 6, 10; consent of the instructor.

**[17. Problems in the Study of Textiles.**—Microscopic and chemical analysis of fabrics; dyeing; special problems. Laboratory fee, \$2.00. *II*; (3). Not offered in 1920-21.

*Prerequisite:* Home Economics 7, 12 or 31; Chemistry 9, 9c.]

**18. Lunch Room Management.**—Organization and equipment of lunch rooms. Brief review of factors in marketing. Study of foods from standpoint of quality, grade, cost, and methods of buying. Laboratory practise. The class takes a trip to Chicago to inspect various types of lunch rooms. The cost of the trip is about \$25.00. *I* or *II*; (5).

Miss BOND

*Prerequisite:* Home Economics 5; Economics 1 or 2; senior standing.

**19. Dress Design.**—Study of dress from the artistic, historic, economic, and hygienic standpoints. Application of principles of design to silhouette, proportion, line, and color. *I* or *II*; (3).

Miss JACOBSEN, Miss WEAVER, Miss GATES

*Prerequisite:* Art and Design 1, 12; Home Economics 7.

**20. Infant Nutrition.**—Lectures; readings; discussions. *II*; (2).

Assistant Professor WARDELL

*Prerequisite:* Home Economics 5; senior standing.

**[21. Weaving.**—Application of the principles of design to weaving. Lectures; laboratory. *I* or *II*; (1). Not offered first semester, 1920-21.

Miss GATES

*Prerequisite:* Art and Design 12; Home Economics 7.]

**28. Organization and Management of the Household.**—(Continuation of Home Eco-

nomics 10). The relation of the home to public activities; retail market organization; cooperative buying and housekeeping; community kitchens; laundries. *II*; (2).

Miss FORD

*Prerequisite:* Home Economics 3, 10.

**29. Garment Making.**—(Open only to those taking the Smith-Hughes course.) Use of the sewing machine and its attachments; application of line and form through drafting; hygienic aspects of clothing; making of simple cotton garments. *I*; (3).

Miss JACOBSEN

*Prerequisite:* Art and Design 12; Home Economics 7.

**30. Designing and Making of Typical Garments.**—(Open only to those taking the Smith-Hughes course.) Application of unity, proportion, line, and color to dress design. Development of modern costume from historic sources. Adaptation of commercial patterns; demonstration and laboratory work in the construction of typical garments from individual designs. *II*; (3).

Miss JACOBSEN

*Prerequisite:* Home Economics 29.

**31. Clothing.**—(Open only to those taking the Smith-Hughes course.) Study of the economic aspects of clothing; clothing budgets; comparative values; use of unusual fabrics; problems of draping on the form, remodeling and renovation. *I*; (3).

Miss JACOBSEN

*Prerequisite:* Home Economics 30.

**33. Diet in Disease.**—Applications of dietetic principles to the problems of diet in disease. Laboratory fee, \$3.00. *II*; (3).

Miss EDWARDS

*Prerequisite:* Home Economics 5.

**34. Teachers' Course in Sewing.**—(Open only to non-Smith-Hughes seniors who wish to be recommended to teach.) Prerequisite to Home Economics 11. *I*; (2).

Miss ALLYN, Miss TEAGARDEN

*Prerequisite:* Home Economics 12.

**35. Experimental Cookery.**—(Not open to Smith-Hughes students.) Relation of recipes; effect of ingredients, of manipulation, of temperature. Conferences and laboratory work occupying nine weeks either half of semester. Should alternate with Home Economics 14. *I* or *II*; (3).

Miss FORD

*Prerequisite:* Home Economics 5, 6, 10; consent of the instructor.

**36. Millinery.**—Twelve lessons in Millinery, beginning with the opening of the second semester. For Home Economics seniors only. *II*; (*no credit*).

Miss WHITLOCK

**38. Food Course.**—(Formerly known as Military 30). For non-home economics students who desire some knowledge of the selection of food with reference to cost, value in the diet, and other factors in the planning of meals. No credit to home economics students. *I* or *II*; (2).

Miss HUNT, Miss GUENTHER

**39. Nutrition.**—Lectures, reports on assigned topics, discussions, review of current literature. *II*; (1).

Assistant Professor WARDELL

*Prerequisite:* Home Economics 4 or concurrent registration in Home Economics 20 or 33.

**40. Home Nursing.**—Lectures, demonstrations, laboratory. *II*; (1).

Assistant Professor BROOKS

*Prerequisite:* Junior or senior standing in home economics.

## Courses for Graduates

This department offers graduate work along two lines, one dealing with the applications of the biological and physical sciences to the problems of food and nutrition; the other with the economic problems of the household. In either case the student must offer a minimum of ten hours' work with food, eight with textiles and clothing, five with the house, eight of chemistry, eight of biological science, and three in the principles of economics. In addition each student must offer five additional hours in economics or a second year of chemistry, including quantitative and organic chemistry, according to the line of specialization.

**[101. Home Economics.**—Vocational, educational, and sociological aspects. *Twice a week; first semester. (1 unit).* Not offered in 1920-21. Professor BEVIER]

**102. Special Investigation.**—Application of the principles of bacteriology, chemistry, and physiology to the ordinary processes used in the preparation of food; problems in metabolism and nutrition. *Twice a week; both semesters. (1-2 units).*

Professor BEVIER, Assistant Professor WARDELL

**103. Seminar.**—Recent advances in nutrition. *Once a week; both semesters. (1½ unit).* Assistant Professor WARDELL

**[104. Economic Problems of the Family Group.**—The economic phases of selected problems of the household. *Twice a week; both semesters. (1 unit).* Not given in 1920-21.]

## Summer Session

**S4. Clothing.**—Textiles used in clothing; cost and care of clothing; use of patterns; remodeling; the making of clothing. (2). Mrs. KENNEY, Miss NEWTON

**S5. Millinery.**—Design and construction of wire, buckram, and cape net frames; covering with velvet and straw. Demonstrations and laboratory. (1½). Mrs. KENNEY

**S6a. Costume Design.**—The use and misuse of fashion and possible remedies for its evils. Value of budgeting. Essentials of suitable dress. Structural design in dress—proportion, silhouette, line, workmanship, and materials. The purpose and fundamental principles of decorative design. Problems in planning the wardrobe, including remodeled and double-purpose dresses. Theory of color and systems of color organizations. Selection of colors suited to peculiar types. (1½). Miss BEDELL

**S6b. House Furnishing.**—Constructive and decorative design in furniture and furnishings. The principles of rhythm, harmony, and balance as the basis for unity in house furnishing. Comparison of floor and wall coverings for durability, cost, and artistic merit. The selection and framing of pictures. The choice and arrangement of lighting fixtures both physiologic and artistic. A survey of English and French furniture and the three great art epochs which shaped it. Problems in floor plans and elevations involving the principles of design and color. Estimation of comparative cost of various types of furnishing. Assigned reading. (1½). Miss BEDELL

**S11. Business of Housekeeping.**—This course deals with the principles underlying the business of housekeeping, emphasizing the spending of the income, time schedules, marketing, service of meals, service in the home. Laboratory fee, \$2.00. (2).

Assistant Professor MACKINNON

*Prerequisite:* A year of general chemistry; a course in general physiology; a year of college work in foods; Economics 1. (Economics 1 may be taken parallel.)

## HORTICULTURE

JOSEPH CULLEN BLAIR, M.S., D.Sc., *Professor of Horticulture and Head of the Department*

JOHN WILLIAM LLOYD, Ph.D., *Professor of Olericulture*

CHARLES SPENCER CRANDALL, M.S., *Professor of Pomology*

BETHEL STEWART PICKETT, M.S., *Professor of Pomology*

HERMAN BERNARD DORNER, M.S., *Professor of Floriculture*

HARRY WARREN ANDERSON, Ph.D., *Assistant Professor of Pomology*

PHILLIP AUGUSTUS LEHENBAUER, Ph.D., *Assistant Professor of Plant Physiology*

WARREN ALBERT RUTH, Ph.D., *Assistant Professor of Pomology*

ARTHUR SAMUEL COLBY, Ph.D., *Assistant Professor of Pomology*

CHANCE STEVEN HILL, B.S., *Assistant Professor of Landscape Gardening*

WILLIAM SANFORD BROCK, A.B., B.S., *Assistant Professor of Horticulture Extension*

EMIL CONRAD VOLZ, M.S., *Assistant Professor of Olericulture*

HARLAND BARTHOLOMEW, *Assistant Professor of Civic Design*

MAY ELIZABETH MCADAMS, B.S., *Associate in Landscape Gardening*

JAMES HUTCHINSON, *Associate in Floriculture*

STANLEY WILLIAM HALL, B.S., *Associate in Floriculture*

OTTO GEORGE SCHAFFER, B.S., *Associate in Landscape Gardening*

HARRY WARREN DAY,<sup>1</sup> B.S., *Instructor in Olericulture*

ELMER ALFRED BIERBAUM,<sup>2</sup> B.S., *Instructor in Pomology*

ZENAS HARRY MOHLMAN, B.S., *Instructor in Floriculture*

IRVING LEONARD PETERSON, B.S., *Instructor in Landscape Gardening*

EMIL FREDERICK GUBA, B.S., *Assistant in Pomology*

CHARLES SHERMAN DALE, B.S., *Assistant in Olericulture*

ERNEST PAUL LEWIS, B.S., *Assistant in Olericulture*

**1a. Elements of Horticulture.**—Fruit growing and ornamental planting, with special reference to the farm home. Required of all freshmen in the General Curriculum in Agriculture. Recitations; practical exercises. *I*; (2).

Professor PICKETT, Assistant Professor COLBY, Mr. BIERBAUM, Mr. FIREBAUGH

**1b. Elements of Horticulture.**—Vegetable gardening, with special reference to the home garden. Required of all freshmen in the General Curriculum in Agriculture. Recitations; practical exercises. No credit in this course allowed to juniors and seniors. *II*; (2). Assistant Professor VOLZ, Mr. DAY, Mr. DALE, Mr. LEWIS

**2. Small Fruits and Grapes.**—The grape, strawberry, raspberry, blackberry, dewberry, currant, gooseberry. History; extent of cultivation; soil; location; fertilizers; propagation; planting; tillage; pruning; insect enemies; diseases; varieties; harvesting; marketing. Lectures; reference readings; laboratory. *II*; (3).

Assistant Professor COLBY

*Prerequisite:* Horticulture 1a.

**3. Commercial Vegetable Gardening.**—The production and marketing of vegetables on a commercial scale. Lectures; reference readings; practical experience in the department greenhouses and gardens. *II*; (5). Professor LLOYD, Assistant Professor VOLZ

*Prerequisite:* Horticulture 1a and 1b or their equivalents.

**4. Plant Houses.**—Construction, cost and maintenance, heating; ventilating. *II*; (3). Professor DORNER

**5. Plant Propagation.**—Grafts; buds; layers; cuttings; seeds. Lectures; laboratory; quizzes. *I*; (3). Professor DORNER

<sup>1</sup>Resigned, December 15, 1920.

<sup>2</sup>Resigned, January 31, 1921.

[6. **Nursery Methods.**—The nursery business; propagation; management; relation to horticulture. Lectures; reference readings. Trips will be taken to nurseries, the cost not to exceed \$10.00. *II*; (2). Not given in 1920–21.

*Prerequisite:* Horticulture 5.]

7. **Spraying.**—Materials, appliances, and methods employed in combating insects and fungous diseases. Lectures; reference readings; laboratory; field work. *II*; (3).

Assistant Professor RUTH

*Prerequisite:* Horticulture 1a and 1b or their equivalents; Chemistry 1; Entomology 4.

[9. **Forestry.**—Forest trees, uses; distribution; artificial production; relations of forest and climate; forestry legislation and economy. *II*; (2). Not given in 1920–21.

*Prerequisite:* Botany 1 or its equivalent.]

10a. **Rural Improvement.**—Landscape gardening in the open country and its relation to rural conditions, with special reference to the farm group. Lectures; reference readings; reports. *I*; (2).

Mr. SCHAFER

10b. **Town Improvement.**—The development of the town as an organism and the improvement of small communities, with special reference to the home grounds. Lectures; reference readings; reports. *II*; (2). Not given in 1920–21.

Mr. SCHAFER

[11. **Study of Cultivated Plants.**—The relationship and classification of economic and ornamental plants of the temperate zone; identification of species; examination of living plants and herbarium specimens. Lectures; assigned readings. *I*; (2). Not given in 1920–21.

Professors BLAIR and CRANDALL

*Prerequisite:* Botany 4a.]

15a. **Principles of Plant Growing.**—Preparation of soils for greenhouse crops; fertilizers; potting and shifting plants; watering. Lectures; practical greenhouse work. *II*; (3).

Professor DORNER, Mr. HALL

*Prerequisite:* Horticulture 5; Botany 1.

15b. **Commercial Crops.**—Greenhouse plants and cut flowers for wholesale and retail markets; care and marketing of the crops. Lectures; greenhouse work. *I*; (3).

Mr. HALL

*Prerequisite:* Horticulture 15a.

19. **Amateur Floriculture.**—Window gardening; growing of flowers on the home grounds; containers; potting soils; fertilizers; preparation and planting of flower beds; propagation and culture of plants for window and garden. *I*; (3).

Mr. MOHLMAN

21a. **Landscape Design** (Sophomore course).—Simple composition as applied to landscape design; types of drafting and presentation used in office practise. Lectures and reference readings. Nine hours' drafting, two hours' freehand work per week. *I*; (4).

Miss McADAMS

*Prerequisite:* Architecture 32.

21b. **Landscape Design** (Sophomore course).—Small private estates and gardens in city and suburban developments; lectures and reference readings. Nine hours' drafting, three hours' freehand per week. *II*; (4).

Miss McADAMS

*Prerequisite:* Horticulture 21a.

23a–23b. **Landscape Design** (Junior course).—Landscape design as applied to country estates, extensive garden planning, city parks, playgrounds, and the grounds of public institutions. Nine hours' drafting, three hours' freehand per week. Lectures; field trips; assigned readings; reports. *I, II*; (4).

Assistant Professor HILL

*Prerequisite:* Horticulture 21b.

**24a. Trees and Shrubs.**—Identification and characteristics of hardy plant material used in landscape gardening. Lectures; reference readings; field trips. *II*; (3).

Miss McADAMS

*Prerequisite:* Botany 1.

**24b. Trees and Shrubs.**—(Continuation of Horticulture 24a). Lectures; reference readings; field trips. *I*; (3).

Miss McADAMS

*Prerequisite:* Horticulture 24a.

**25a-25b. Advanced Landscape Design** (Senior course).—Landscape design as applied to larger landscape problems, educational groups, rural parks, golf courses, cemeteries, etc. Lectures; field trips; assigned readings. Twelve hours' drafting, three hours' freehand per week. *I, II*; (5). (Extra hours by special arrangement).

Mr. SCHAFER

*Prerequisite:* Horticulture 23b.

**26a. Planting Design** (First course).—The planting of private estates and gardens. Problems based on those worked out in courses 21b and 23b. Planting; lectures; drafting; reference readings; field trips; planting specifications; reports. Six hours' drafting; one lecture. *II*; (3).

Mr. PETERSON

*Prerequisite:* Horticulture 23a, 24b.

**26b. Planting Design** (Second course).—The planting of public properties, parks, golf courses, cemeteries. Problems based on those worked out in courses 23b and 25. Lectures; drafting; conferences. Six hours' drafting, one lecture. *I*; (3).

Mr. PETERSON

*Prerequisite:* Horticulture 26a.

**27a-27b. Landscape Construction.**—The preparation of construction drawings such as grading plans, working drawings, specifications and reports. *I, II*; (3).

Assistant Professor HILL

*Prerequisite:* Civil Engineering 32.

**[29a. Garden Design.**—The garden in its relation to the house; architectural harmony, utilization, topographic conditions, and planting for architectural or horticultural emphasis. Eight hours' drafting, one lecture. *I*; (3). Not given in 1920-21.

*Prerequisite:* Architecture 32.]

**29b. Garden Design.**—The designing of period gardens and their relation to garden design. Eight hours' drafting, one lecture. *II*; (3).

Assistant Professor HILL

*Prerequisite:* Horticulture 23a or Architecture 33.

**30. Decorative and Bedding Plants.**—Tropical and sub-tropical plants used in decorative work in the conservatory; tender plants used in out-door bedding. Lectures; practical greenhouse work. *II*; (3).

Mr. HALL

*Prerequisite:* Horticulture 15a.

**31. Garden Flowers.**—The propagation and growing of annuals, herbaceous perennials, bulbs, and shrubs for cut flowers and ornamental plantings. *II*; (3).

Professor DORNER

*Prerequisite:* Horticulture 5; Botany 1.

**32a. Floral Decoration.**—Cut flowers and plants in decorative work; arrangement of flowers in baskets, designs, and bouquets, table decoration; house decoration. (For floral-cultural students). *I*; (3).

Professor DORNER, Mr. MOHLMAN

**32b. Floral Decoration.**—(Continuation of Horticulture 32a). *II*; (3).

Professor DORNER, Mr. MOHLMAN

*Prerequisite:* Horticulture 32a.

**34. Vegetables under Glass.**—Types of greenhouses for vegetable forcing; soils; fertilizers; treatment of insects and diseases; management problems; marketing; detailed study of the principal forcing crops. Lectures; reference readings; practical laboratory work. Assistant Professor VOLZ

*Prerequisite:* Horticulture 3 or 15a.

**36. History of Landscape Gardening.**—Lectures; reference readings; library sketches; reports. Required of freshmen in the professional course; open to other students by permission of the instructors in charge. *I*; (3). Mr. PETERSON

**37a. City Planning.**—Principles of town and city planning; a study of the function of the various parts of towns and cities, with special reference to the remodeling and revision of the town plan. Lectures; field trips; reference readings; reports; drafting. *I*; (3).

Assistant Professor BARTHOLOMEW

*Prerequisite:* Senior standing in landscape gardening. By permission of the instructor open also to students of senior standing in civil and municipal engineering, political science and commerce.

**37b. City Planning.**—Principles of town and city planning; with special attention given to guiding the growth of communities, zoning and districting; industrial and suburban residential community planning. Lectures; reference readings; drafting; textbook. *II*; (3). Assistant Professor BARTHOLOMEW

*Prerequisite:* Horticulture 37a.

**38. Office Practise in Landscape Gardening.**—Legislation authorizing and promoting the ends of city planning. Contracts and specifications. Three weeks in senior year. Lectures; reference readings; textbook. *II*; (1). Assistant Professor HILL

*Prerequisite:* Horticulture 27b and 23b.

**39a-39b. Special Lectures.**—Lectures by members of the faculty and invited lecturers on the working out of problems in landscape gardening. Certain inspection trips will be required of the class. The expense of these trips will be about \$2.00. One lecture a week with written reports. (Professional students are required to register in this course each semester of each year). *I*; *II*; (1).

Assistant Professor HILL, Miss McADAMS, Mr. SCHAFER, Mr. PETERSON

*Prerequisite:* Permission of the instructor in charge.

**40. Trees and Shrubs (Advanced course).**—Care of plant material. Cultivation of plants for landscape purposes, planting, pruning, spraying, tree surgery and landscape forestry as applied to private estates, parks, and street planting. *II*; (3). Mr. SCHAFER

*Prerequisite:* Horticulture 24b; senior standing.

**[42. Landscape Design (Elementary course for non-professional students).**—The planning and planting of home grounds. Lectures; reference readings; reports; six hours' drafting per week. *II*; (3). Not given in 1920-21.]

**49. Systematic Vegetable Crops.**—Types; varieties; strains; nomenclature; descriptions. Adaptation to given purposes. Selection of specimens for market and exhibition. Judging vegetable exhibits. Lectures; research; laboratory. *I*; (2).

Professor LLOYD

*Prerequisite:* Horticulture 3.

**50. Vegetable Seed Production.**—Importance of the industry; sources of supply; climatic influences; seedmen's trial grounds. Selection of specimens for stock seed; winter storage of biennials for seed purposes; planting and care of the growing seed crop;



"roguing;" harvesting, curing, and storage of seeds. Determinations of purity and germination; official standards. The American seed trade; seedmen's responsibilities and opportunities; improvement of varieties; introduction of novelties. Lectures; research; laboratory. *II*; (3).

Professor LLOYD

*Prerequisite:* Horticulture 49.

**51. Fruit Diseases.**—The bacterial and fungous diseases of tree and small fruits. Symptomology and control measures are emphasized. In addition to laboratory studies, the diseases are studied in the field wherever possible, so that the student may become acquainted with the parasites in their natural habitats. *II*; (3).

Assistant Professor ANDERSON

*Prerequisite:* Senior standing; Botany 7a or its equivalent.

### Courses for Advanced Undergraduates and Graduates

**8a. Orcharding.**—Principal orchard fruits; culture of commercial orchards; planting; varieties; cultivation; fertilizing; pruning; harvesting; grading; packing; storing; marketing. *I*; (3).

Professor PICKETT

*Prerequisite:* Horticulture 1a; junior standing.

**8b. Orcharding.**—A continuation of Horticulture 8a.

Professor PICKETT

*Prerequisite:* Horticulture 8a.

**12. Evolution of Horticultural Plants.**—History, botanical classification, and geographical distribution of cultivated plants; modification under culture; theoretical causes and observed factors that influence variation, particularly food supply, climate, and cross-fertilization. *I*; (3).

Professor CRANDALL

*Prerequisite:* Two years of university work; Horticulture 8 and Botany 4a.

**[17. Orchard Organization and Operation.**—The application of the principles of business organization and operation to fruit growing. *II*; (3). Not given in 1920–21.

*Prerequisite:* Senior standing; for students specializing in pomology.]

**18. Experimental Horticulture.**—Methods and difficulties in horticultural investigations; the planning of experiments; recording and interpretation of results. For advanced students preparing for experiment station work. *II*; (3).

Professors BLAIR and PICKETT

*Prerequisite:* Twenty hours' work in horticulture.

**22a–22b. Investigation and Thesis.**—Special training in the investigation of horticultural problems. *I, II*; (5).

*Prerequisite:* Senior standing; permission of the head of the department.

**33. Systematic Pomology.**—Description, nomenclature, and classification of native and sub-tropical fruits; critical descriptions and identifications with special reference to relationships and classification of varieties. Training is given in judging and displaying fruits. (For students specializing in pomology). *I*; (2).

Professor PICKETT

*Prerequisite:* Junior standing.

**43. Greenhouse Fertilizers.**—Soils and fertilizers; plant food materials and the water requirement of greenhouse crops. Lectures; seminar. *I*; (3).

Assistant Professor LEHENBAUER

*Prerequisite:* Botany 27a; Agronomy 9; Horticulture 3 or 15a.

**44. Pomology Seminar.**—Assigned topics; review of books, current technical journals

and other publications. For seniors and graduates specializing in pomology. *I* or *II*; (1/2). Assistant Professor RUTH

*Prerequisite:* Senior standing.

**45. Plant Nutrition.**—The food of plants; growth of greenhouse plants in relation to temperature, light, humidity, and carbon dioxide content of the air. Lectures; assigned readings; seminar. *II*; (3). Assistant Professor LEHENBAUER

*Prerequisite:* Botany 27a; Agronomy 9; Horticulture 3 or 15a.

**46. Marketing Horticultural Products.**—A study of fundamental principles involved in the successful marketing of fruits and vegetables. An inspection trip will be required in this course; expenses of trip about \$15.00. For seniors and graduates specializing in horticulture. *I*; (3). Professor LLOYD

*Prerequisite:* Senior standing.

**52. Special Vegetable Crops.**—Horticultural classification; cultural requirements; specific adaptations; and uses of the less common vegetables. Particular attention is given to recently introduced vegetables of foreign origin. Lectures; research; laboratory. *II*; (3). Professor LLOYD

*Prerequisite:* Horticulture 3; senior standing.

### Courses for Graduates

At least two years of collegiate work in horticulture and allied subjects and specific preparation for chosen topics are required for entrance on major work in this department.

**103. Olericulture.**—Horticultural relationships, origin, breeding, fertilizing, cultural requirements, and improvement of vegetables. Research; conferences. *I, II*; (1-2). Professor LLOYD

**108. Pomology.**—Special problems in the relationship, adaptation, improvement, propagation, cultivation, pruning, protection, preservation, or marketing of small fruit and orchard fruits. Conferences. *I, II*; (1-2).

Professors BLAIR, CRANDALL, LLOYD, and PICKETT

**115. Floriculture.**—The horticultural status of flowering plants, or special problems in the culture of greenhouse plants. *I, II*; (1-2).

Professor DORNER, Assistant Professor LEHENBAUER

### HYGIENE AND PUBLIC HEALTH

J HOWARD BEARD, A.M., M.D., *Professor of Hygiene and University Health Officer*

GERTRUDE EVELYN MOULTON, M.D., *Medical Adviser to Women*

MAX LAMPERT, M.D., *Assistant to University Health Officer*

**1. Elementary Hygiene and Sanitation.**—Required of all undergraduate men during their first year of residence. *I, II*; (1/2). Dr. BEARD, DEAN CLARK

**2. Essentials of Hygiene and Sanitation.**—Required of all undergraduate women during their first year of residence. *I, II*. (1). Dr. MOULTON, DEAN MASON

**3. General Hygiene.**—Hygiene as applied to the individual, to the home, to the school, and to the community. *II*; (3). Dr. BEARD, Dr. LAMPERT

## INDUSTRIAL EDUCATION

SAMUEL JESSE VAUGHN, A.B., *Associate Professor*  
 ARTHUR BEVERLY MAYS, B.S., *Assistant Professor*  
 CARL ALBERT HOFFMAN, *Instructor, Chicago Center*  
 FREDERICK E PRICE, B.S., *Instructor, Chicago Center*

1. **Craft Production.**—*I*; (4).

Associate Professor VAUGHN

2. **Quantity Production.**—*II*; (4).

Associate Professor VAUGHN

*Prerequisite:* Industrial Education 1.

50. **Survey of Industrial Education.**—Manual arts and industrial education in the United States; the Smith-Hughes Act as it has to do with Industrial Education; Illinois state plans and provisions; analyzing and classifying industrial content for instructional purposes; practise. *I*; (3).

Associate Professor VAUGHN

*Prerequisite:* Contact with trade or industry through (a) one or more of such courses as Industrial Education 1, 2, 3; M.E., 75, 77, 79, 81, 82; or (b) practical commercial courses, as accounting, typewriting, salesmanship; or, (c) such household science courses as have a direct bearing upon the work of women or men in industry; or (d) practical experience in industry or commerce of not less than six months, eight hours per day, five and one-half days per week, or the equivalent, or consent of instructor.

[52. **Teaching Related Trade Subjects.**—Mathematics, science, and drawing, and similar subjects, applied, in industrial schools and classes; practise in analyzing and classifying the content of such subjects for instructional purposes, and in relating the same to trade or industrial content. Lesson planning. *II*; (3). Not given in 1920-21.]

*Prerequisite:* (a) A minimum of five hours in each and ten hours in some one of the following: College mathematics; physics; chemistry; mechanical and freehand drawing; shopwork; (b) Educational 25, Education 10, concurrently; Industrial Education 50.]

[53a-53b. **Supervised Teaching of Related Trade Subjects.**—*I, II*; (2). Not given in 1920-21.

*Prerequisite:* Industrial Education 52].

54. **Teaching General Continuation Subjects.**—Teaching in continuation schools such subjects as history, geography, economics, English, mathematics, sanitation, safety and hygiene, and citizenship; practise in analyzing and classifying content of such subjects for instructional purposes. Lesson planning. *II*; (3).

Associate Professor VAUGHN

*Prerequisite:* (a) A minimum of five hours in each and ten hours in some one of the following groups: (1) Economics 7, 22, 26, 27, 1, or 2; Geology 35; (2) Rhetoric 1, 2, 3a or 3b, 10; Public Speaking 1, 2; (3) Physiology 2, 3; Physical Training, Hygiene; (4) Political Science 1, 3, 4, 11; Sociology 1. (5) History; (b) Education 25, Education 10, concurrently; Industrial Education 50, or consent of instructor.

[55a-55b. **Supervised Teaching of General Continuation Subjects.** *I, II*; (2). Not given in 1920-21.

*Prerequisite:* Industrial Education 54.]

56. **Teaching Shopwork.**<sup>1</sup>—Teaching shopwork in industrial schools and classes; practise in analyzing and classifying trade and industrial content for effective instruction. Lesson planning; management; supervised teaching.

Associate Professor VAUGHN, Mr. HOFFMAN, Mr. PRICE

*Prerequisite:* (a) Two years of trade or industrial experience beyond the apprenticeship period; (b) Completion of an elementary curriculum or its equivalent.

<sup>1</sup>This work is given only in evening schools in industrial centers of the state and in summer school.

[58. **Organization of Industrial Education.**—*I*; (3). Not given in 1920–21.

*Prerequisite:* Industrial Education 50 and 52 or 54 or 56.]

[60. **Teaching Manual Arts.**—*II*; (3). Not given in 1920–21.

*Prerequisite:* G.E.D. 1; Education 25, Education 10, concurrently; Industrial Education 50.]

[61a-61b. **Supervised Teaching of Manual Arts.**—*I, II*; (2). Not given in 1920–21.

*Prerequisite:* Industrial Education 60.]

[62. **Organization of Manual Arts.**—*I*; (3). Not given in 1920–21.

*Prerequisite:* Industrial Education 60.]

### Summer Session Courses

S2. **Woodwork.**—Mastery of woodworking handtools, technical terminology, conventional methods of procedure. (3). Professor GRIFFITH, Mr. WILSON

S3. **Furniture Construction.**—Construction and finishing of furniture. Use of woodworking machinery; woodturning. (3). Professor GRIFFITH, Mr. COX

S50. **Introduction to Industrial Education.**—Equivalent to course 60.

Professor GRIFFITH

S52. **Teaching Related Technical Subjects.**—Equivalent to course 52.

Assistant Professor MCKINNEY

S54. **Teaching Non-Vocational Subjects.**—Equivalent to course 54.

Assistant Professor MCKINNEY

S56. **Teaching Shopwork.**—Equivalent to course 56.

Assistant Professor MCKINNEY

### LANDSCAPE GARDENING

(See HORTICULTURE)

### LATIN

(See CLASSICS)

### LAW

OLIVER ALBERT HARKER, A.M., LL.D., *Professor and Acting Dean*

FREDERICK GREEN, A.M., LL.B., *Professor*

JOHN NORTON POMEROY,<sup>1</sup> A.M., LL.B., *Professor*

WALTER LEE SUMMERS, A.B., LL.B., Jur.D., *Professor*

WILLIAM EVERETT BRITTON, A.M., J.D., *Assistant Professor*

FRANK BONNER LEONARD, JR.,<sup>2</sup> A.B., J.D., *Instructor*

ORIS BARTH,<sup>3</sup> LL.D., *Instructor*

<sup>1</sup>Leave of absence, second semester.

<sup>2</sup>First semester.

<sup>3</sup>Second semester.

## First Year Courses

- 1a-1b. **Contracts.**—Keener: *Cases on Contracts* and Ballantine: *Problems in the Law of Contracts*. I, II; (3). Mr. SUMMERS
- 2a-2b. **Torts.**—Ames and Smith: *Cases on Torts*. I; (2); II; (3). Mr. LEONARD
3. **Real Property. Rights in Land.**—Bigelow: *Cases on Rights in Land*. II; (3). Mr. SUMMERS
5. **Criminal Law.**—Beale: *Cases on Criminal Law* (3rd edition). I; (3). Mr. BRITTON
6. **Personal Property.**—Warren: *Cases on Property*. I; (3). Mr. GREEN
7. **Domestic Relations.**—Kale: *Cases on Persons* (2nd Edition). II; (2). Mr. BRITTON
11. **Agency.**—Wambaugh: *Cases on Agency*. II; (3). Mr. GREEN
- 37a-37b. **Brief Making.**—I, II; (2). Mr. BRITTON

## Second and Third Year Courses

4. **Common Law Pleading.**—Andrew Stephens: *Pleading and Selected Cases*. I, (3). Mr. HARKER
8. **Evidence.**—Thayer: *Cases on Evidence* (2nd edition). Mr. LEONARD
9. **Sales.**—Williston: *Cases on Sales* (2nd edition). II; (3). Mr. BRITTON
- [10. **Real Property. Titles.**—Aigler: *Cases on Property*. I; (3). Not given in 1920–21. Mr. SUMMERS]
12. **Equity.**—Ames: *Cases on Equity*. I; (5). Mr. POMEROY
- [13. **Damages.**—Beale: *Cases on Damages*. Not given in 1920–21. Mr. ....]
- [14. **Carriers.**—Green: *Cases on Carriers*. Not given in 1920–21. Mr. GREEN]
15. **Bills and Notes.**—Smith and Moore: *Cases on Bills and Notes*. I; (3). Mr. BRITTON
16. **Trusts.**—Scott: *Cases on Trusts*. I; (3). Mr. POMEROY
17. **Private Corporations.**—Canfield and Wormser: *Cases on Private Corporations*. I; (4). Mr. GREEN
18. **Wills.**—Warren: *Cases on Wills*. II; (3). Mr. POMEROY
19. **Partnership.**—Gilmore: *Cases on Partnership* (2nd edition). II; (2). Mr. ....
20. **Equity Pleading.**—Rush: *Equity Pleading*, and Rush: *Cases on Equity Pleading*. II; (2). Mr. HARKER
21. **Suretyship.**—Hening: *Cases on Suretyship*. I; (3). (Given as a seminar course 1920–1921.) Mr. BRITTON
- Prerequisite: Law 15.

- 22a-22b. Constitutional Law.—Hall: *Cases on Constitutional Law*. I; (3); II; (2).  
Mr. GREEN
23. Mortgages and the Recording Acts.—Wyman: *Cases on Mortgages*. II; (2).  
Mr. POMEROY
24. Municipal Corporations.—Beale: *Cases on Municipal Corporations*. II; (1 or 2).  
Mr. POMEROY
25. Bankruptcy.—Williston: *Cases on Bankruptcy* (2nd edition.) II; (2).  
Mr. POMEROY
- [26. Legal Ethics.—Costigan: *Cases on Legal Ethics*. I; (1). Not given in 1920-21.  
Mr.....]
27. Real Property.—Future Interests.—Kales: *Cases on Future Interests*. I; (3).  
Mr. SUMMERS
28. Insurance.—II; (2).  
Mr.....]
- [29. Conveyancing.—Selected abstracts and problems. I; (1). Not given in 1920-21.  
Mr. HARKER]
30. Public International Law.—Lawrence: *Principles of International Law*, and Evans: *Cases on International Law*. I; (2).  
Mr. BERDAHL
31. Conflict of Laws.—Beale: *Shorter Selection of Cases on Conflict of Laws*. II;  
(3) Mr. GREEN
32. Quasi-Contracts.—Thurston: *Cases on Quasi-Contracts*. I; (2).  
Mr.....]
33. Real Property. Rights in Land.—Bigelow: *Cases on Rights in Land*. II; (3).  
Mr. SUMMERS
- [34. Public Utilities.—I; (3). Not given in 1920-21.  
Mr. GREEN]
35. Illinois Procedure.—I; (3).  
Mr. HARKER
- 36a-36b. Practise Court.—II; (2).  
Mr. HARKER
- [42. Trial Practise.—II; (3). Not given in 1920-21.  
Mr. BRITTON]
43. Reading Course in Legal Literature.—Selected readings. I, II, or summer vacation. (2).

## LIBRARY SCIENCE

- PHINEAS LAWRENCE WINDSOR, Ph.B., *Director*  
FRANCES SIMPSON, M.L., B.L.S., *Assistant Director, Assistant Professor*  
....., *Assistant Professor*  
JOHN SIMEON CLEAVINGER, A.B., B.L.S., *Associate*  
ETHEL BOND, A.B., B.L.S., *Instructor*  
ANNE MORRIS BOYD, A.B., B.L.S., *Instructor*  
FRANK K. WALTER, A.M., M.L.S., *Instructor*  
GRACE SHELLENBERGER, *Special Lecturer (Summer Session)*  
ELIZABETH KNAPP, B.L., *Special Lecturer*  
MARTHA WILSON, *Special Lecturer*  
GRACE MILDRED MURRAY, A.B., B.L.S., *Assistant*  
JOSIE BATCHELLER HOUCHEMS, A.M., B.L.S., *Lecturer*  
MARGARET HUTCHINS, A.B., B.L.S., *Lecturer, General Reference*  
ALICE SARAH JOHNSON, A.B., B.L.S., *Lecturer, General Reference*  
....., *Lecturer, General Reference*  
FANNY DUNLAP, Ph.B., B.L.S., *Lecturer, General Reference*  
MARY LUCILE WARNOCK, B.L.S., *Lecturer, General Reference*

## Courses for Freshmen and Sophomores

**12. General Reference.**—Classification and arrangement of books in the University library; the card catalogs; the more generally used reference books. (Intended for freshmen and sophomores in the University, not for students in Library School.) Repeated each semester. *I* or *II*; (2).

Miss HUTCHINS, Miss BOYD, Miss JOHNSON, Miss DUNLAP, Miss BOND, Mr. CLEAVINGER, Miss WARNOCK.

## Courses for Library School Juniors

**2a-2b. Reference.**—Methods of bibliographical research; the use of reference books; practical work in the reference department of the University library. *I, II*; (3).

Miss SIMPSON

**3a-3b. Selection of Books.**—Principles of selection for libraries of different types; standard lists, critical periodicals, and other aids; practise in writing book annotations. *I, II*; (2).

Miss BOYD

**16. Order, Accession, and Shelf.**—Order department records and routine book-buying; publishers and discounts; serials and continuations; gifts; exchanges; duplicates; the accession book and its substitutes; the shelf list and its uses; the care of pamphlets, clippings, and maps. *I*; (2).

Miss MURRAY

**17. Classification.**—Principles of book classification; the Dewey Decimal Classification; the Cutter Expansive Classification; book numbers. *I*; (3).

Miss BOND

**18. Cataloging.**—Dictionary cataloging; subject headings; classed cataloging. *I*; (3).

Miss BOND

**19. Trade Bibliography.**—Books and periodicals used as tools of the book trade of America, England, Germany, and France. *II*; (1).

Miss BOND

**20. Loan Department.**—Records connected with the loan of books; representative loan systems; rules, regulations, and practises. *I*; (1).

Mr. CLEAVINGER

**21. Printing, Binding, and Indexing.**—Printing: printing for libraries; preparing copy and reading proof. Binding: materials and methods of bookbinding for libraries; practise in preparing books for the bindery and in making necessary records. Indexing: the form of citation; the choice and arrangement of headings; kind of type. *II*; (2).

Mr. CLEAVINGER, Miss BOND

**22. Library Extension.**—Library legislation; organization and administration of public libraries; county and township library systems; special libraries; library commissions; library training; library associations. *II*; (3).

**23a-23b. Library Administration and Current Library Literature.**—Current library periodicals, bulletins, reports, catalogs, and reading lists; copyright; the organization, reorganization, and administration of small libraries; the planning and equipment of reading rooms and small library buildings; library accounts and business forms. This course includes an inspection trip to libraries and book-publishing firms in selected cities, requiring about one week and costing approximately twenty-five dollars (\$25.00). *I, II*; (1).

Mr. CLEAVINGER

**30. Practise.**—Work in the various departments of the University Library. To be taken with Library 2, 16, 17, 18, 19, 20, and 21. *II*; (3).

Mr. CLEAVINGER

## Courses for Library School Juniors and Seniors

**7. History of Libraries.**—The foundation, development, and resources of the leading libraries of Europe and the United States. *II*; (2). Given in alternate years.

Miss SIMPSON

**[9. History of Books and Printing.**—History of the early forms of books; the invention and spread of printing; book illustration; book-binding. *II*; (2). Given in alternate years. Not given in 1920–21.

Mr. WINDSOR]

## Courses for Library School Seniors

**8. Advanced Reference.**—Transactions of learned societies; special periodicals and government publications; indexes and other works of value to a large reference department. *I*; (2).

Miss SIMPSON

*Prerequisite:* Library 2a-2b.

**15a-15b. Seminar in Library Economy.**—Special problems; library economy publications. *I, II*; (2).

Miss SIMPSON and others

**24a-24b. Selection of Books.**—English translations of representative works of French, German, Spanish, Italian, and Russian novelists of the 19th century; examination of about forty newly published books each month. *I, II*; (2).

Mr. CLEAVINGER

**26a-26b. Library Administration.**—Advanced order work; library organization; library architecture; legislative and municipal reference work; library work with children; special topics. This course includes an inspection trip to libraries and book-publishing firms in selected cities, requiring about one week and costing approximately twenty-five dollars (\$25.00); and also one month of field work in a designated library, costing approximately forty-five dollars (\$45.00). *I, II*; (3).

Mr. CLEAVINGER and others

**27. Bibliographical Institutions.**—Organization and work of bibliographical societies and institutions of America and Europe; cooperative bibliographical undertakings; international bibliography. *I*; (1).

Miss BOND

**28. Practise.**—Advanced practise in certain departments of the University library. *II*; (1 to 4).<sup>1</sup> *Time to be arranged.*

Miss SIMPSON

**29. Advanced Classification and Cataloging.**—Systems of book classification; comparative rules for cataloging books. *II*; (2).

Miss BOND

*Prerequisite:* Library 17, 18.

**40a-40b. Practise.**—A continuation of Library 30 supplemented by one month of work as a member of the staff of an assigned public or other library. *I, II*; (3).

Miss HOUGHENS

**41a-41b. Subject Bibliography.**—Selection of books in special subjects; the literature and bibliography of each. Lectures by professors in the respective departments of the University. *I, II*; (1).

Mr. CLEAVINGER and others

**13a-42. Public Documents.**—First semester: production and distribution of United States documents; their treatment and use as reference books. Second semester: American state and municipal documents; publications of foreign governments. *I, II*. (2 and 3).

Miss BOYD

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., *not* 1-4, but 1, or 2, or 3, or 4.



### Summer Session Curriculums

During the academic year of 1919-20, in connection with the University of Illinois summer session, the Library School offered two curriculums.

Curriculum A consists of eight weeks' courses for college graduates. This curriculum receives full University credit. Only those students are registered in its courses who can meet the entrance requirements of the Library School.

- |   |                |
|---|----------------|
| <b>S3a. Selection of Books.</b>                       | Miss BOYD      |
| <b>S20. Loan Department.—(1).</b>                     | Mr. CLEAVINGER |
| <b>S23a. Library Administration.—(1).</b>             | Mr. CLEAVINGER |
| <b>S17. Classification and Subject Headings.—(3).</b> | Mr. CLEAVINGER |
| <b>S18. Cataloging.—(3).</b>                          | Miss BOND      |

Curriculum B consists of six weeks elementary courses for which no University credit is given. This curriculum is intended for persons not eligible for admission to the Library School and such students must hold library positions or be under appointment to positions.

- S1. Classification.—**Cataloging; book numbers. *Five times a week.*
- S2. Reference Work.—**Reference books suited to the small public library. *Twice a week.*
- S3. Selection of Books.—**Book selection and subject bibliography. *Twice a week.*
- S4. Libraries and Children.—**Selection and discussion of children's books; administration of children's libraries; classification and cataloging. *Twice a week.*
- S5. Order and Accession.—**Loan department; binding and repair. *Twice a week.*
- S6. Library Administration and Extension.—***Twice a week.*

The following eight weeks course, accepted for credit, was also offered to teachers and to juniors and seniors in the University:

- |                                     |           |
|-------------------------------------|-----------|
| <b>S12. General Reference.—(2).</b> | Miss BOYD |
|-------------------------------------|-----------|

### MATHEMATICS

EDGAR JEROME TOWNSEND, Ph.D., LL.D., *Professor*  
 GEORGE ABRAM MILLER, Ph.D., *Professor*  
 JAMES BYRNIE SHAW, D.Sc., *Professor*  
 ARTHUR BYRON COBLE, Ph.D., *Professor*  
 ROBERT DANIEL CARMICHAEL, Ph.D., *Professor*  
 ARNOLD EMCH, Ph.D., *Associate Professor*  
 ARTHUR ROBERT CRATHORNE, Ph.D., *Assistant Professor*  
 GUSTAF ERIC WAHLIN, Ph.D., *Assistant Professor*  
 AUBREY JOHN KEMPNER, Ph.D., *Assistant Professor*  
 HENRY BLUMBERG, Ph.D., *Assistant Professor*  
 ERNEST BARNES LYTLE, Ph.D., *Assistant Professor*  
 EDWIN RAYMOND SMITH, Ph.D., *Associate*  
 CHARLES FRANCIS GREEN, Ph.D., *Instructor*  
 LEONARD LEO STEIMLEY, Ph.D., *Instructor*  
 HENRY RAY BRAHANA, Ph.D., *Instructor*

BIRD MARGARET TURNER, Ph.D., *Instructor*  
 MARY GERTRUDE HASEMAN, Ph.D., *Instructor*  
 WILLIAM EDMUND EDINGTON, A.M., *Assistant*  
 BERNHARD PAUL REINSCH, M.S., *Assistant*  
 HARVEY PIERSON PETTIT, A.M., *Assistant*  
 FRANK GUSTAVE WAHLEN, M.S., *Assistant*  
 WALTER GRISEMER, A.B., *Assistant*  
 CRANDALL Z ROSECRANS, B.S., *Assistant*  
 GEORGE THEODORE FELBECK, B.S., *Assistant*  
 LEE HORACE MCFARLAN, A.M., *Assistant*  
 ELIZABETH EASTON STICKNEY, A.M., *Assistant*  
 HARRY ALBERT BENDER, A.B., *Assistant*  
 ROY FRENCH GRAESSER, A.B., *Assistant*  
 JOHN W HURST, B.S., *Assistant*  
 WESLEY J WAGNER, A.B., *Assistant*  
 CLYDE MONROE HOBART, A.M., *Assistant*  
*Cooperating:*  
 JOEL STEBBINS, Ph.D., *Professor of Astronomy*

### Courses for Undergraduates

#### 2. College Algebra.—*I or II. (3).*

Professor MILLER, Professor COBLE, Associate Professor EMCH, Assistant Professor BLUMBERG, Assistant Professor LYTLE, Dr. SMITH, Dr. BRAHANA, Dr. GREEN, Dr. STEIMLEY, Dr. TURNER, Dr. HASEMAN, Mr. REINSCH, Mr. GRISEMER, Mr. HOBART, Mr. BENDER, Mr. MCFARLAN, Mr. WAHLEN, Mr. FELBECK, Mr. PETTIT, Mr. ROSECRANS, Mrs. STICKNEY, Mr. HURST, Mr. WAGNER.

*Prerequisite:* Entrance algebra,  $1\frac{1}{2}$  units; plane geometry, 1 unit.

3. Algebra.—(For students presenting only one unit of entrance algebra.) In addition to the work of college algebra (Mathematics 2), there is covered the more advanced topics of elementary algebra. *I; (5).*

Dr. SMITH, Dr. STEIMLEY, Dr. GREEN, Dr. BRAHANA, Dr. HASEMAN, Mr. GRISEMER, Mr. EDINGTON, Mrs. STICKNEY, Mr. WAGNER.

*Prerequisite:* Entrance algebra, 1 unit; plane geometry, 1 unit.

#### 4. Plane Trigonometry.—*I or II; (2).*

Professor CARMICHAEL, Associate Professor EMCH, Assistant Professor BLUMBERG, Dr. GREEN, Dr. STEIMLEY, Dr. TURNER, Dr. HASEMAN, Dr. BRAHANA, Mr. WAHLEN, Mr. PETTIT, Mr. GRISEMER, Mr. REINSCH, Mr. FELBECK, Mr. BENDER, Mr. HOBART, Mr. MCFARLAN, Mr. GRAESSER, Mr. WAGNER, Mr. HURST.

*Prerequisite:* Entrance algebra, 1 unit; plane geometry, 1 unit.

#### 6. Analytic Geometry.—Plane and solid analytic geometry. *I or II; (5).*

Professor COBLE, Associate Professor EMCH, Assistant Professor BLUMBERG, Dr. TURNER, Dr. GREEN, Dr. STEIMLEY, Dr. HASEMAN, Dr. BRAHANA, Mr. EDINGTON, Mr. REINSCH, Mr. PETTIT, Mr. WAHLEN, Mr. GRISEMER, Mr. FELBECK, Mr. BENDER, Mr. WAGNER, Mr. HOBART, Mr. HURST, Mr. MCFARLAN.

*Prerequisite:* Mathematics 2 (or 3), 4.

6a. Analytic Geometry.—(For chemists and chemical engineers.) Plane and solid analytic geometry. This course is planned as a preparation for Mathematics 8. *II; (4).*

Assistant Professor BLUMBERG, Dr. HASEMAN

*Prerequisite:* Mathematics 2 (or 3), 4.

**7-9. Differential and Integral Calculus.**—The principles developed and applied to functions of one and of several variables. *I*; (5); *II*; (3).

Professor TOWNSEND, Professor SHAW, Professor CARMICHAEL, Professor COBLE, Assistant Professor CRATHORNE, Assistant Professor WAHLIN, Assistant Professor BLUMBERG, Assistant Professor LYTLE, Dr. SMITH, Dr. STEIMLEY, Dr. GREEN, Dr. BRAHANA, Dr. HASEMAN, Mr. EDINGTON.

Note.—Three sections of Mathematics 7 are given the second semester.

*Prerequisite*: Mathematics 6.

**8a-8b. Differential and Integral Calculus.**—(For students in chemistry and chemical engineering.) *I*, *II*; (3).

Assistant Professor KEMPNER

*Prerequisite*: Mathematics 6a or 6.

**9a. Differential and Integral Calculus.**—(Second course.) The definite (single and multiple) integrals; the formation of problems in applied mathematics; line, surface, and volume integrals; the theorem of Stokes and Green; partial differentiations; exact integrals with applications of the conditions for exactness; elements of differential equations, approximate quadrature and integration of differential equations. *I*; (2).

Professor SHAW, Associate Professor EMCH, Assistant Professor CRATHORNE, Assistant Professor WAHLIN, Dr. SMITH.

*Prerequisite*: Mathematics 7 and 9 (or 8).

### Courses for Advanced Undergraduates and Graduates

**10. Theory of Equations and Determinants.**—Properties of an algebraic equation in one unknown; systems of simultaneous equations; a system of linear equations; determinants. *I*; (3).

Professor MILLER

*Prerequisite*: Mathematics 7 and 9 (or 8).

**16-17. Differential Equations and Advanced Calculus.**—Ordinary and partial differential equations; special topics of calculus. *I*, *II*; (3).

Professor TOWNSEND

*Prerequisite*: Mathematics 7 and 9 (or 8).

**18. Constructive and Projective Geometry.**—Methods of geometric constructions and constructive solution of problems. Approximative constructions. Discussion of possibilities of construction by ruler and compasses, by double-ruler, and instruments of higher order. Elements of inversive geometry in plane and space. Stereographic projection; isometric projection; orthographic projection, perspective; geometrical principles involved in projective processes; introduction to projective geometry. Analytic formulation of projective methods. *II*; (3).

Associate Professor EMCH

*Prerequisite*: Mathematics 6.

**19. Solid Analytic Geometry.**—This course is designed to furnish the geometric training needed in parts of Mathematics 9 and also as a continuation of Mathematics 6. A review of the plane and right line in space; quadric and other surfaces; plotting of surfaces. Curves in space. *II*; (3).

Professor COBLE

*Prerequisite*: Mathematics 7 or 8.

**21. Method of Least Squares.**—Law of probability and error; adjustment of observations; precision of observation; independent and conditional observations. *I*; (2).

Professor STEBBINS

*Prerequisite*: Mathematics 7 and 9, or 8.

**23. Averages and Mathematics of Investment.**—Meaning, use, and abuse of averages; probability; annuities, insurance, and branches of science; loans and investments; evaluation of investment securities. *II*; (3).

Assistant Professor CRATHORNE

*Prerequisite*: Mathematics 2; junior standing.

**30-31. Actuarial Theory.**—Life contingencies; life tables; monetary tables; valuation of policies to meet statutory requirements; risk; distribution of surplus; annual reports; inheritance taxes; old age pensions; workmen's compensation; investing the funds of an insurance company. *I, II; (3).* Assistant Professor CRATHORNE

*Prerequisite:* Mathematics 7 and 9 (or 8), 23.

**32. History of Mathematics.**—The elementary subjects; rise and growth of the higher mathematics, chiefly in the nineteenth century; biography. Lectures; reports on assigned reading. *II; (2).* Assistant Professor LYTLE

*Prerequisite:* Eighteen hours of mathematics.

**35. Teachers' Course.**—Secondary algebra and geometry; educational value; position in course; methods of teaching; correlation; American and foreign methods; order and importance of topics; text-books; literature. Lectures; discussions; reports. *I; (2).*

Assistant Professor LYTLE

*Prerequisite:* Eighteen hours of mathematics.

**[40. Fundamental Concepts of Mathematics.**—The number concept; unity, aggregate order, and correspondence; irrationals and limits, transcendence of  $e$  and  $\pi$ ; parallel axiom and non-euclidian geometrics; constructions with ruler and compass; function; logic of mathematics. *II; (2).* Not given in 1920-21. Assistant Professor LYTLE

*Prerequisite:* Eighteen hours of mathematics.]

**90-91. Undergraduate Thesis.**—Special training in mathematical investigation for seniors. *I; II; (2).* Members of the department

*Prerequisite:* Twenty-four hours of college mathematics.

### Courses for Graduates

Students entering on graduate study with a major in mathematics must have had twenty-five semester hours of undergraduate work in mathematics, including a year's course in calculus, and a course in theory of equations or in differential equations.

**100. Seminar and Thesis.**—*Three times a week; I, II; (1 or 2 units).*

Professors in department

**[101. Functions of Real Variables.**—(Introductory course.) Theory of point sets with applications to problems in differentiation and integration. *Three times a week; I, II; (1 unit).* Not given in 1920-21. Professor TOWNSEND

*Prerequisite:* Mathematics 16-17.]

**[102. Functions of a Complex Variable.**—*Three times a week; I, II; (1 unit).*

Professor TOWNSEND]

**104. Theory of Aggregates.**—Modern treatment of the unrestricted set, correspondence, order, limit, neighborhood, measure, etc. *Three times a week; II; (1 unit).*

Assistant Professor BLUMBERG

*Prerequisite:* One year of graduate work in mathematics.

**[105. Calculus of Variations.**—Conditions for a maximum or minimum in simple and isoperimetric problems. *Three times a week; I, II; (1 unit).* Not given in 1920-21.

Assistant Professor CRATHORNE]

**109. Algebraic and Abelian Functions.**—Algebraic functions and their integrals on the Riemann surface. Abel's theorem and the inversion problem. Multiply periodic functions. Applications to the geometry on curves. Extensions to functions of two variables and the geometry on surfaces. *Three times a week; I, II; (1 unit).*

Professor COBLE

*Prerequisite:* Mathematics 102; Mathematics 110a advised.

[110a. **Elliptic Functions.**—The processes of analysis on which the theory of elliptic functions depends; singly periodic functions; means of approach to the theory of doubly periodic functions; development of the theory from the point of view of definite integrals, and of Mittag-Leffler's partial fraction expansion. *Three times a week; I; (1 unit).* Not given in 1920-21.  
Professor CARMICHAEL]

[110b. **Elliptic Functions.**—Approach to the theory of doubly periodic functions from the point of view of Weierstrass's product expansion, of  $q$ -difference equations, and of functional equations; applications to geometry, mechanics, and the theory of numbers; periodic functions of two variables. *Three times a week; II; (1 unit).* Not given in 1920-21.  
Professor CARMICHAEL]

[111a. **Automorphic Functions.**—Geometry in the complex plane. The group-theoretic side of the theory. *Three times a week; I; (1 unit).* Not given in 1920-21.  
Assistant Professor EMCH]

[111b. **Automorphic Functions.**—Function-theoretic developments and applications of automorphic function. *Three times a week; II; (1 unit).* Not given in 1920-21.  
Professor EMCH]

112a. **Linear Difference Equations.**—Elementary theory of differences; equations with constant coefficients; etc. *Three times a week; I; (1 unit).*  
Professor CARMICHAEL

112b. **Linear Difference Equations.**—General expansion problems.—*Three times a week; II; (1 unit).*  
Professor CARMICHAEL

[113. **Linear Differential Equations in Real Variables.**—General existence theorems; oscillation theorems and pendulum problems; etc. *Three times a week; I; (1 unit).* Not given in 1920-21.  
Professor CARMICHAEL]

[114. **Linear Differential Equations in Complex Variables.**—General existence theorems, function-theoretic considerations; etc. *Three times a week; II; (1 unit).* Not given in 1920-21.  
Professor CARMICHAEL]

[122. **Modern Algebra.**—*Three times a week; I, II; (1 unit).* Not given in 1920-21.  
Assistant Professor KEMPNER]

124. **The Theory of Numbers.**—First semester: Theory of congruences, power residues with special study of quadratic residues and the law of reciprocity, and higher congruences. Second semester: Theory of algebraic numbers, domains of rationality, the theory of ideals. *Three times a week; I, II; (1 unit).*  
Assistant Professor WAHLIN

[125. **Continuous Groups.**—Representation of certain continuous transformation groups by means of ordinary complex numbers. Lie's theory of differential equations, etc. *Three times a week; I; (1 unit).* Not given in 1920-21.  
Professor MILLER]

126. **Finite Groups.**—Substitution groups of low degrees. Sylow's theorem; etc. *Three times a semester; three times a week; I, II; (1 unit).*  
Professor MILLER

[127. **Theory of Groups.**—Advanced course. *Three times a week; I, II; (1 unit).* Not given in 1920-1921.  
Professor MILLER]

129. **Theory of Statistics.**—Methods of statistical investigation; application to problems in economics, sociology, and biology. *Three times a week; I, II; (1 unit).*  
Assistant Professor CRATHORNE

[130. **Invariants and Higher Plane Curves.**—Applications of the theory of invariants to higher plane curves, etc. *Three times a week; I, II; (1 unit)*. Not given in 1920–21.

Professor COBLE]

[131. **Algebraic Surfaces.**—The application of homogenous coordinates and the theory of invariants to geometry of three dimensions, etc. *Three times a week; I, II; (1 unit)*. Not given in 1920–21.

Assistant Professor EMCH

*Prerequisite:* Mathematics 19.]

133. **Geometric Transformations.**—Motion in a plane; perspective; collineation; correlation; polarity; inversion, quadratic transformations; in particular the Steinerian transformation. Discussion of various transformations in space. *Three times a week; I; (1 unit)*.

Associate Professor EMCH

*Prerequisite:* Twenty-one hours of college mathematics.

134. **Geometry in a Complex Field.**—Geometric constructions in a complex plane; bilinear and higher algebraic transformations in a complex plane and their geometric interpretation. Geometric theory of associated point-couples, and its applications. The treatment of imaginary elements in geometry. Theory of foci. Motion in a complex plane. *Three times a week; II; (1 unit)*.

Associate Professor EMCH

135. **Differential Geometry.**—Applications of the calculus and of differential equations to the theory of curves and surfaces. Curves on surfaces. Quadratic differential forms. *Three times a week; second semester. (1 unit)*.

Professor COBLE

[141. **Vector Methods.**—The algebras of quaternions, space and analysis, and dyadics; differentials and integrals of space; applications to mechanics, elasticity, hydrodynamics, electrodynamics, and meteorology. *Three times a week; I; (1 unit)*.

Professor SHAW

142. **General Vectors.**—The algebras applicable to space of four dimensions, and  $n$  dimensions; differential and integral operators; applications to relativity problems of kinematics, mechanics, electrodynamics; general dyadics and applications. *Three times a week; II; (1 unit)*.

Professor SHAW

[143. **Linear Algebra.**—A general study of the theory of linear associative and non-associative algebras, particular consideration of the types of algebras, and their chief representatives; applications. *Three times a week; I; (1 unit)*. Not given in 1920–21.

Professor SHAW]

[144. **General Algebra.**—The general theory of combinations of elements, with a study of the main types such as associativity, commutativity, and other limitation types; applications to the theory of infinite algebras and the theory of general operators. *Three times a week; II; (1 unit)*. Not given in 1920–21.

Professor SHAW]

[145. **Fundamental Functions.**—The theory of orthogonal and biorthogonal functions and expansions in terms of them, with particular study of several well-known cases; applications to the solution of differential and integral equations. *Three times a week; I; (1 unit)*. Not given in 1920–1921.

Professor SHAW]

[146. **Functional Transformations.**—The theory of operators which transform functions into functions, particularly those related to the infinite algebras of orthogonal functions; applications to functions of lines, surfaces, etc., and to integro-differential equations; general infinite vector analysis. *Three times a week; II; (1 unit)*. Not given in 1920–21.

Professor SHAW]

### Summer Session Courses

The department of mathematics offers at least five courses each summer for graduates and advanced undergraduates, and these courses will be so varied as to enable advanced students to secure a suitable sequence during four or five successive summer sessions to meet the requirements for at least the master's degree. Three of these five courses are of an intermediate grade, open to advanced undergraduates as well as to graduates, while the other two are primarily for graduate students.

The intermediate courses are for the present to be devoted to the following six subjects: Theory of equations and determinants, advanced calculus, constructive geometry, advanced algebra, differential equations, and advanced analytic geometry. It is proposed to give a course on each of these subjects every two years.

The prerequisites and credit values are the same as for these courses in the regular semesters unless otherwise stated.

### Courses for Undergraduates

S2. College Algebra. (3).	Mr. EDINGTON, Mr. PETTIT
S4. Plane Trigonometry. (2).	Dr. LYTLE, Mr. PETTIT
S6. Analytical Geometry. (5).	Assistant Professor WAHLIN
S7. Differential Calculus. (5).	Dr. KLINE
S9. Integral Calculus. (3).	Mr. EDINGTON

### Courses for Advanced Undergraduates and Graduates

**S12. Advanced Algebra.**—Selected topics from higher algebra, such as determinants with applications, graphical methods, fundamental theorem of algebra. (2½).

Assistant Professor KEMPNER

*Prerequisite:* Mathematics 7-9.

**S16. Differential Equations.**—Total and partial differential equations. Applications to geometry and physics. Special study of linear equations, and in particular certain forms that appear frequently in physics. (2½).

Assistant Professor CRATHORNE

*Prerequisite:* Mathematics 7-9.

**S35. Teachers' Course.**—High-school algebra and geometry; educational value; analysis of content; movements influencing content; educational principles used in teaching algebra and geometry; courses and methods of other countries; literature. Lectures, discussion, and reports. (2½).

Dr. LYTLE

*Prerequisite:* Eighteen hours of college mathematics or the consent of the instructor for teachers with experience.

*Equivalent:* Mathematics 35 (in part).

### Courses for Graduates

**S129. Theory of Statistics.**—General methods of statistical investigation with special attention to the underlying mathematical theory. (1 unit).

Assistant Professor CRATHORNE

**S102. Functions of a Complex Variable.**—Single valued functions. (1 unit).

Assistant Professor KEMPNER

## MECHANICAL ENGINEERING

ARTHUR CUTTS WILLARD, B.S., *Professor of Heating and Ventilation and Head of the Department*

GEORGE ALFRED GOODENOUGH, M.E., *Professor Thermodynamics*

OSCAR ADOLPH LEUTWILER, M.E., *Professor of Machine Design*

JOSEPH V POLSON, M.E., *Associate Professor*

CLARENCE WALTER HAM, M.E., *Associate Professor of Machine Design*

BRUCE WILLET BENEDICT, B.S., *Manager of Shop Laboratories*

ALONZO PLUMSTED KRATZ, M.S., *Research Assistant Professor of Mechanical Engineering, Engineering Experiment Station*

HORACE JAMES MACINTIRE, M.M.E., *Assistant Professor of Refrigerating Engineering*

MATTHEW RUTHERFORD RIDDELL, A.B., *Assistant Professor of Aeronautic Engineering, and Assistant to the Director of the Engineering Experiment Station*

VINCENT STEPHEN DAY, B.S., *Special Research Associate, Engineering Experiment Station*

HUBER OGILVIE CROFT, B.S., *Instructor in Mechanical Engineering*

ARTHUR HILDEMAN AAGAARD, B.S., *Instructor in Mechanical Engineering*

GUSTAV HOWARD RADEBAUGH, *Assistant Manager, in charge of Machine Laboratory*

ROBERT EDWIN KENNEDY, *Superintendent of Foundry Laboratory*

EDGAR THOMAS LANHAM, *Superintendent of Forge Laboratory*

BURRILL RUPERT HALL, *Superintendent of Pattern Laboratory*

OSCAR WILLIAM SCHRICKER, *Assistant Superintendent of Machine Laboratory*

AMOS DAVID WRIGHT, *Assistant Superintendent, Pattern Laboratory*

ROY WILBUR SCHROEDER, *Assistant Superintendent, Foundry Laboratory*

CHARLES ALBERT BROOKS, *Assistant Superintendent, Forge Laboratory*

**1. Steam and Air Machinery.**—The construction, operation, and care of boilers, engines, and air compressors; elementary thermodynamics; steam engine performance; transmission of compressed air and its applications. (For students in chemical, civil, and mining engineering.) *I*; (3). Assistant Professor MACINTIRE, Mr. CROFT

*Prerequisite:* Junior standing.

**2. Steam Engineering.**—Engines, boilers, pumps, condensers, and other steam machinery. *II*; (3). Assistant Professor MACINTIRE

*Prerequisite:* Physics 1a-1b, 3a-3b.

**4. Steam Engineering.**—The theory of the steam engine, steam turbine, and other steam machinery. (For students in mechanical engineering.) *I*; (3).

*Prerequisite:* Junior standing.

**11. Thermodynamics and Heat Engines.**—(For students in electrical engineering.) *I*; (3). Professor GOODENOUGH, Assistant Professor MACINTIRE

*Prerequisite:* Mechanical Engineering 1 or 2.

**13. Thermodynamics.**—The transformation of heat into work; the second law and its connection with irreversible processes; the properties of heat media; the perfect gases; saturated and superheated vapors; the flow of fluids. *II*; (5). Professor GOODENOUGH

*Prerequisite:* Mathematics 9a; Theoretical and Applied Mechanics 21.

**14. Thermodynamics.**—Application of the principles of thermodynamics to the steam engine, steam turbine, internal combustion engine, air compression and refrigeration. *II*; (3). Professor GOODENOUGH

*Prerequisite:* Mechanical Engineering 13.

**15. Gas Power Engineering.**—Internal combustion engines; liquid and gaseous fuels and their combustion; gas producers. *I* and *II*; (3). Professor GOODENOUGH

*Prerequisite:* Mechanical Engineering 12.



**23. Mechanical Equipment of Buildings.**—Theory and practise of designing simple systems for the mechanical equipment of buildings, including heating and ventilation, refrigeration, fire protection, vacuum cleaning, elevators, lighting, and small power plants. Lectures; laboratory. *I*; (5). Professor WILLARD

*Prerequisite:* Senior standing.

**25. Heating and Ventilation for Architects.**—The theory and the application of the principles of heating and ventilation to modern practise. Direct and indirect steam and hot water heating; furnace heating; ventilation and air analysis; air conditioning; temperature and humidity control. *I*; (2). Professor WILLARD

*Prerequisite:* Senior standing.

**26. Heating and Ventilation.**—The theory and the application of the principles of heating and ventilation to modern practise. Steam boilers and water heaters of steel and cast iron for heating service; heat losses from buildings; direct and indirect steam and hot water heating, using gravity systems; furnace heating; fan blast or mechanical indirect systems; exhaust steam heating; district heating by steam and water; ventilation and air analysis; air conditioning; temperature and humidity control. *II*; (3). Professor WILLARD

*Prerequisite:* Mechanical Engineering 65.

**30. Mechanics of Machinery.**—Mechanisms and mechanical movements; cams, gears, valve gears, and quick-return motions; graphical constructions for displacement, velocity, and acceleration; kinetics of the steam engine mechanism and similar mechanisms; balancing; critical speeds; force and mass reduction. *II*; (5). Mr. CROFT

*Prerequisite:* Theoretical and Applied Mechanics 21.

**33. Aeronautic Engineering.**—History and development of aeronautic science with critical analyses of the design and construction of aircraft. *I*; (3). Professor RIDDELL

*Prerequisite:* Theoretical and Applied Mechanics 21 and 29 and senior standing.

**34. Aeronautic Engineering.**—Continuation of Mechanical Engineering 33. *II*; (3). Professor RIDDELL

*Prerequisite:* Mechanical Engineering 33.

**37. Principles of Management.**—The underlying principles of organization and of management; application of science to industrial problems; selection, training and compensation of labor; modern production methods. *I* or *II*; (3). Professor BENEDICT

*Prerequisite:* Mechanical Engineering 81, 82, and senior standing.

**43. Engineering Design.**—Theory of machine design, with application; investigation of actual machines similar to the one to be designed; design of machinery subjected to heavy and variable stresses; punches, shears, presses, riveters, and cranes. *I*; (5). Professor LEUTWILER, Mr. CROFT

*Prerequisite:* Theoretical and Applied Mechanics 29; Mechanical Engineering 30.

**52. Power Plant Design.**—Study and design of some form of steam power plant. *II*; (3). Professor LEUTWILER, Mr. CROFT

*Prerequisite:* Mechanical Engineering 43 and 65.

**[61. Power Measurement.**—The testing and calibration of instruments and apparatus; use of the indicator, calculation of horse-power and steam consumption; reading of indicator diagrams; valve setting. (For students in electrical engineering.) *I*; (2). Not given in 1920-21.

*Prerequisite:* Mechanical Engineering 1 or 2.]

**62. Power Measurement and Steam Engines.**—Laboratory work, substantially the same as that given in Mechanical Engineering 61, supplemented by lectures on steam-machinery. *II*; (3).

*Prerequisite:* Junior standing.

**64. Power Measurement.**—Apparatus for engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters; methods of calibrating and using such apparatus; tests for horse-power of steam engines; pumps; and gas engines. Reports. *II*; (3).

Professor WILLARD

*Prerequisite:* Mechanical Engineering 2; registration in Mechanical Engineering 12 or Chemistry 31.

**[65. Power Laboratory.**—Experiments on engines, turbines, gas engines, pumps, boilers, injectors, air compressors, hoisting appliances, heating apparatus, and refrigerating machines. *I*; (3). Not given in 1920-21.

Professor WILLARD

*Prerequisite:* Mechanical Engineering 12 and 64.]

**71. Forge Work for Agricultural Students.**—Forging and welding; tempering tools; pointing and hardening cultivator shovels, plowshares. *Six hours a week, either half of I or II*; (1).

Mr. LANHAM, Mr. BROOKS

**73. Woodwork for Agricultural Students.**—Carpentry for the farmer; use of tools; layout and construction of building joints; repairs to buildings and equipment. *Six hours a week, either half of I or II*; (1).

Mr. HALL, Mr. WRIGHT

**75. Forge Practise and Management.**—(9 weeks).—Modern forge shop practise, and management of metal forging plants. Planning, routing, dispatching, and inspection of work; time studies; production of standard parts; heat treatment of steel; case carbonizing; machine and hand forging; studies of forge shop practises; methods and equipment. *I or II*; (1).

Professor BENEDICT, Mr. LANHAM, Mr. BROOKS

**77. Foundry Practise and Management.**—(18 weeks).—Modern foundry practise and management. Planning, routing, dispatching, and inspection of work; time studies; production of standard castings; brass furnace and cupola practise; machine, bench, and floor molding; core making; cleaning castings; tool and stock room methods; studies of foundry practises, methods, and equipment. *I or II*; (3).

Professor BENEDICT, Mr. KENNEDY, Mr. SCHROEDER

**[78. Principles of Foundry Operation.**—Principles underlying foundry operation. Foundry organization and management including planning, routing, dispatching, production, inspection, testing, cost accounting, etc.; foundry methods, processes, machines; tools, metals, and materials in modern commercial foundries. *I or II*; (3). Not given in 1920-21.

Professor BENEDICT, Mr. RADEBAUGH, Mr. KENNEDY, Mr. SCHROEDER

*Prerequisite:* Two units of machine shop and foundry practise in accredited schools or colleges.]

**79. Pattern Shop Practise and Management.**—(9 weeks).—Training in modern pattern shop practises. Planning, routing, dispatching, and inspection of work; time and cost keeping; time studies; work schedules; layout and construction of wood and metal patterns for both machine and hand molding; care and use of tools; machine operation; studies of pattern shop practises, methods, and equipment. *I or II*; (2).

Professor BENEDICT, Mr. HALL, Mr. WRIGHT

**81. Machine Shop Practise and Management.**—(18 weeks).—Modern machine shop practise and management of metal working plants. Manufacturing methods; shop man-

agement; planning; production; routing; dispatching; inspection; time studies; shop accounting; machine operation; assembling; testing; studies of machine shop practise, methods, and equipment. *I*; (3). Professor BENEDICT, Mr. RADEBAUGH, Mr. SCHRICKER  
*Prerequisite:* Mechanical Engineering 75, 77, and 79.

**82. Machine Shop Practise and Management.**—(Continuation of Mechanical Engineering 81). *II*; (2). Professor BENEDICT, Mr. RADEBAUGH, Mr. SCHRICKER  
*Prerequisite:* Mechanical Engineering 81.

**[83. Principles of Factory Operation.**—(18 weeks).—Principles underlying factory operation. Practical training in organization and management of a machine shop manufacturing a line of standardized products by modern production methods. Planning; routing; dispatching; inspection; maintenance; testing; cost accounting, etc. Design methods, processes, machines, tools and materials. *I* or *II*; (3). Not given in 1920–21.

Professor BENEDICT, Mr. RADEBAUGH, Mr. SCHRICKER  
*Prerequisite:* Two units of machine shop and foundry practise in accredited schools or colleges.

**98. Thesis.**—Investigation of special subject and preparation of thesis embodying a review of the literature of the subject, the results of investigation, and a discussion of those results. *II*; (3). *Time to be arranged.*

**99. Inspection Trip.**—*I*; (no credit).  
*Prerequisite:* Senior standing.

### Courses for Graduates

Entrance or graduate work in mechanical engineering presupposes the full undergraduate course in that subject.

**107. Thermodynamics.**—Application of thermodynamics to the solution of physical and engineering problems. *Twice a week; I; (1 unit). Time to be arranged.*

Professor GOODENOUGH

**109. Machine Design.**—Rational design; the application of mechanics of materials. Individual problems. *Twice a week; I or II; (1 unit). Time to be arranged.*

Professor LEUTWILER

**112. Laboratory Investigations.**—Combustion of fuel; boiler economy; steam engines and turbines; gas engines and producers; properties of explosive mixtures; mechanical refrigeration. Original work. *Three times a week; I, II; (1½ units). Time to be arranged.*

Professor WILLARD

### MECHANICS, THEORETICAL AND APPLIED

ARTHUR NEWELL TALBOT, D.Sc., D.Eng., *Professor of Municipal and Sanitary Engineering; in charge of Theoretical and Applied Mechanics*

HERBERT FISHER MOORE, M.M.E., *Research Professor of Engineering Materials, Engineering Experiment Station*

MELVIN LORENIUS ENGER, M.S., C.E., *Professor of Mechanics and Hydraulics*

FRED B SEELY, M.S., *Associate Engineer*

VIRGIL R FLEMING, B.S., *Assistant Professor of Applied Mechanics*

HAROLD EATON BABBITT, M.S., *Assistant Professor of Municipal and Sanitary Engineering*

NEWTON EDWARD ENSIGN, A.B., B.S., *Associate*

WILLIAM JAMES PUTNAM, M.S., *Associate*

HARALD MALCOLM WESTERGAARD, Ph.D., *Associate*

FRANK ERWIN RICHART, M.S., *Research Associate, Engineering Experiment Station*

JASPER OWEN DRAFFIN, M.S., *Instructor*

LOUIS JOHN LARSON, M.S., *Instructor*

WILLIAM LOUIS SCHWALBE, M.S., *Instructor*

**10. Hydraulics.**—Pressure and flow of water; utilization as motive power; observation and measurement of pressure, velocity, and flow; power and efficiency; determination of experimental coefficients. Laboratory weekly. *II*; (3).

Professor ENGER, Associate Professor SEELY, Assistant Professor FLEMING, Mr. PUTNAM

*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 21.

**14. Elements of Mechanics.**—Kinematics, kinetics, and statics. (For architects and others who have not taken the calculus). *II*; (4). Mr. DRAFFIN

*Prerequisite:* Mathematics 2, 4.

**15-16. Strength of Materials.**—Graphical methods; elastic curve of beams; centroids and moments of inertia of areas; reinforced concrete beams and columns; tests of engineering materials. (For students in architecture and others without the prerequisites for course 25 or 29.) Laboratory every other week. *I, II*; (3).

Dr. WESTERGAARD, Mr. DRAFFIN

*Prerequisite:* Theoretical and Applied Mechanics 14.

**20. Analytical Mechanics.**—The mechanics of engineering rather than that of astronomy and physics. Force systems, equilibrium, centroids and center of gravity; friction; kinematics; problems; statement of conditions and use of data. *II*; (3).

Associate Professor SEELY, Mr. ENSIGN, Dr. WESTERGAARD

*Prerequisite:* Mathematics 7; registration in Mathematics 9. (Mathematics 8a and registration in Mathematics 8b for students in chemical engineering and industrial administration.)

**21. Analytical Mechanics.**—Continuation of course 20. Kinematics and kinetics. *I*; (2).

Professor ENGER, Associate Professor SEELY, Assistant Professor FLEMING, Mr. ENSIGN, Dr. WESTERGAARD, Mr. DRAFFIN, Mr. LARSON.

*Prerequisite:* Mathematics 8b or 9; Theoretical and Applied Mechanics 20.

**25. Resistance of Materials.**—A briefer course than Theoretical and Applied Mechanics 29. (For students in architectural, ceramic, chemical, electrical, and mining engineering.) Laboratory weekly. *I*; (4).

Assistant Professor FLEMING, Assistant Professor BABBITT, Mr. ENSIGN, Mr. PUTNAM, Dr. WESTERGAARD, Mr. DRAFFIN, Mr. LARSON, Mr. SCHWALBE.

*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 20.

**26. Analytical Mechanics and Hydraulics.**—Kinematics, kinetics, and hydraulics; problems; hydraulic laboratory. (For students in architectural, electrical, and mining engineering and industrial administration.) Laboratory weekly during the last half of the semester. *II*; (4).

Associate Professor SEELY, Assistant Professor FLEMING, Mr. PUTNAM, Dr. WESTERGAARD.

*Prerequisite:* Theoretical and Applied Mechanics 25.

**29. Resistance of Materials.**—Mechanics of materials; properties and requirements for materials of construction; effect of methods of manufacture on quality; specifications

and standard tests. (For students in civil, mechanical, and municipal and sanitary engineering.) Recitations; lectures; assigned reading. Laboratory weekly. *I*; (5).

Professor TALBOT, Professor ENGER, Associate Professor SEELY, Mr. ENSIGN, Mr. PUTNAM, Mr. DRAFFIN, Mr. LARSON, Mr. SCHWALBE.

*Prerequisite*: Mathematics 9; registration in Theoretical and Applied Mechanics 21.

**36. Analytical Mechanics.**—The portion of course 26 devoted to analytical mechanics. (Open only to railway electrical engineering students.) *II*; (2). Mr. PUTNAM

*Prerequisite*: Theoretical and Applied Mechanics 25.

### Courses for Advanced Undergraduates and Graduates

**[1. Analytical Mechanics.**—(Especially for graduates and advanced undergraduates in Arts and Sciences). Lamb's *Statics*. *I*; (3). Not given in 1920–21. Mr. ENSIGN

*Prerequisite*: Mathematics 8 or 9.]

**[2. Analytical Mechanics.**—(A continuation of Theoretical and Applied Mechanics 1). Lamb's *Dynamics*. *II*; (3). Not given in 1920–21. Mr. ENSIGN

*Prerequisite*: Theoretical and Applied Mechanics 1.]

**41. Advanced Mechanics of Materials.**—Special problems met in engineering. Thick cylinders, guns, curved beams, hooks, chain links, rings; unsymmetrical bending; flat plates, bulk heads; elastic strength of material as affected by heat treatment and overstrain; stresses due to impact loads; resistance of materials to repeated loading; collapsing pressure of thin-walled vessels. Exact versus approximate analyses. Methods of extending approximate analyses. General methods of attack. The application of mechanics to special machine parts and structures. *I*; (3). Associate Professor SEELY

*Prerequisite*: Theoretical and Applied Mechanics 20 and 25 or 29.

**42. The Properties of Engineering Materials; Specifications and Inspection.**—The properties and uses of materials of construction, iron, steel, non-ferrous metals, wood, concrete, brick, and stone. Standard specifications for materials; methods of inspection. *II*; (2). Associate Professor SEELY

*Prerequisite*: Theoretical and Applied Mechanics 20 and 25 or 29.

**44. Laboratory Work in Testing Materials.**—Study of testing machines and strain measuring apparatus; practise in making standard tests in tension, compression, and flexure. Torsion tests, impact tests, hardness tests, repeated stress tests, and tests of special forms. Systematic tabulation and reduction of test data. Laboratory and computing room periods. *II*; (3). Professor MOORE

*Prerequisite*: Theoretical and Applied Mechanics 20 and 25 or 29.

**45. Advanced Technical Statics.**—A survey of graphical and algebraic methods and principles used in technical statics. General theories of deformations of structures, in particular of statically indeterminate structures; principles of virtual work and of least action; the method of the substitute structure; the method of the principal displacements, including the slope-deflection method; Ritz's method; elastic stability and buckling. Applications to a variety of structures in different fields of engineering. *I*; (3).

Dr. WESTERGAARD

*Prerequisite*: Theoretical and Applied Mechanics 20 and 25 or 29, or equivalent work in physics and mathematics.

### Courses for Graduates

Entrance on graduate work in theoretical and applied mechanics presupposes a full undergraduate course in that subject.

**101. Analytical Mechanics.**—The historical development of methods of analysis; advanced problems in statics and dynamics; critical and comparative study of texts. *Twice a week; II; (1 unit).* Professor MOORE

**102. Resistance of Materials.**—Properties of materials used in engineering construction and methods of determining these properties; mechanics of materials; effect of form of member in a structure or machine; the method of application of forces; comparative study of texts. *Twice a week; II; (1 unit).* Professor MOORE

**103. Hydraulics and Hydraulic Engineering.**—The laws of hydraulics and their application to engineering problems; hydraulic power and its development; design and investigation. *Twice a week; II; ( $\frac{1}{2}$  to 1 unit).* Professor ENGER

**104. Experimental Work in the Laboratory of Applied Mechanics.**—(a) Laboratory investigation in the materials-testing laboratory; (b) experimental work in hydraulic laboratory. *Twice a week; I, II; ( $\frac{1}{2}$  to 2 units).*

Professor TALBOT, Professor MOORE, Professor ENGER

**105.—Experimental and Analytical Work in Reinforced Concrete.**—Research; interpretation of experimental results and their application to the design of structures; principles of construction. Laboratory experimentation. *Twice a week; I, II; (1 to 2 units).*

Professor TALBOT

#### Summer Session Courses

**S20. Analytical Mechanics.**—(3). Mr. ENSIGN  
*Prerequisite:* Mathematics 7; registration in Mathematics 9.

**S21. Analytical Mechanics.**—(3). Associate Professor SEELY, Mr. ENSIGN  
*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 20.

**S25. Resistance of Materials.**—(4). Mr. PUTNAM  
*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 20.

#### MEDICINE

(See under COLLEGE OF MEDICINE)

#### METEOROLOGY

(See GEOLOGY)

#### MINERALOGY

(See GEOLOGY)

#### MILITARY SCIENCE

GEORGE FREDERICK NEY DAILEY, Major, Infantry, *Professor and Commandant*  
THOMAS JAMES CAMP, Major, Infantry, *Associate Professor and Executive Officer*  
WILLIAM EDWARD BURR, Captain, Field Artillery, *Assistant Professor*  
LAYSON ENSLOW ATKINS, Captain, Corps of Engineers, *Assistant Professor*  
JOSEPH MONROE MURPHY, Captain, Infantry, *Assistant Professor*  
DANIEL ALLMAN CONNOR, Captain, Field Artillery, *Assistant Professor*  
ROBERT WALKER GROW, Captain, Cavalry, *Assistant Professor*  
EDWARD SCOTT JOHNSTON, Captain, Infantry, *Assistant Professor*  
WILLIAM SAMUEL RUMBOUGH, Captain, Signal Corps, *Assistant Professor*

JOHN GARFIELD WHITESIDES, Captain, Air Service, *Assistant Professor*  
 ROBERT EUGENE WILLIAMS, First Lieutenant, Cavalry, *Associate*  
 CHAUNCEY AUDREY BENNETT, First Lieutenant, Field Artillery, *Associate*  
 GROVER ELMER HUTCHINSON, First Lieutenant, Infantry, *Associate*  
 SAMUEL CARTER STEWART, First Lieutenant, Cavalry, *Associate*  
 LAURENCE ANDERSON HAYWARD, Master Sergeant, D.E.M.L., *Assistant in Infantry*  
 JOHN EMMET LYNCH, Master Sergeant, D.E.M.L., *Assistant in Signal Corps*  
 MICHAEL KELLY, Master Sergeant, D.E.M.L., *Assistant in Corps of Engineers*  
 ADAM PINSSENSHAUM, First Sergeant, D.E.M.L., *Assistant in Cavalry*  
 THOMAS OWEN MAHAN, First Sergeant, D.E.M.L., *Assistant in Field Artillery*  
 ROBERT CLARKE JOHNSON, Staff Sergeant, D.E.M.L., *Assistant in Corps of Engineers*

### **Freshman Infantry**

**1a-2a. Practical.**—Organization, military courtesy and discipline, infantry drill regulations, infantry weapons, care and handling of infantry arms and equipment, group games, disciplinary gymnastics, guard duty, personal hygiene, sanitation, first aid, gallery practise, range practise, musketry, minor tactics. Two hours a week. *I, II; (½).*

Professor DAILEY, Assistant Professor JOHNSTON

**1b-2b. Theoretical.**—Infantry drill regulations, care and handling of arms and equipment, theory of target practise, personal hygiene, first aid, sanitation, musketry, minor tactics, military courtesy and customs of the service. One hour a week. *I, II; (½).*

Assistant Professors CAMP, MURPHY, HUTCHINSON

### **Sophomore Infantry**

**3a-4a. Practical.**—Review of subjects given in 1a-2a, and application of subjects given in 3b-4b. Two hours a week. *I, II; (½).*

Professor DAILEY, Assistant Professor JOHNSTON

**3b-4b. Theoretical.**—Advanced work in subjects 1b-2b, coaching gallery and range practise, topography and map reading. One hour a week. *I, II; (½).*

Assistant Professors CAMP, MURPHY, HUTCHINSON

### **Junior Infantry**

**5a-6a. Practical.**—Duties of officers and noncommissioned officers, including all subjects in 1a-2a, 3a-4a, coaching gallery and range practise, troop leading. Three hours a week. *I, II; (½).*

Professor DAILEY, Assistant Professors CAMP, JOHNSTON

**5b-6b. Theoretical.**—Camp sanitation and care of troops in the field, musketry, minor tactics, administration, international and military law, military policy of the United States, field engineering, liaison for all arms. Two hours a week. *I, II; (½).*

Assistant Professors CAMP, JOHNSTON

### **Senior Infantry**

**7a-8a. Practical.**—Duties of officers and noncommissioned officers, including advanced work in subjects 52-62 and solution of problems in musketry and minor tactics. Three hours a week. *I, II (½).* Professor DAILEY, Assistant Professors CAMP, JOHNSTON

**7b-8b. Theoretical.**—Company administration, military history and policy of the United States, study of the world war, courts-martial, rules of land warfare, musketry solution of problems in minor tactics. Two hours a week. *I, II; (½).*

Professor DAILEY, Assistant Professor MURPHY

**Freshman Field Artillery**

**11a-12a. Practical.**—Field artillery drill regulations, fundamental military science, pistol practise, field artillery materiel. Equitation and drivers' instruction. Two hours a week. *I, II; (½).*  
Assistant Professors BURR, CONNOR, BENNETT

**11b-12b. Theoretical.**—Field artillery drill regulation, fundamental military science, field artillery materiel, elementary gunnery, hippology, guard duty. One hour a week. *I, II; (½).*  
Assistant Professors BURR, CONNOR, BENNETT

**Sophomore Field Artillery**

**13a-14a. Practical.**—Field artillery drill regulations, topography and reconnaissance, use of fire control instruments, field artillery materiel, tractor driving, equitation, and mounted drill. Two hours a week. *I, II; (½).*  
Assistant Professors BURR, CONNOR, BENNETT

**13b-14b. Theoretical.**—Gunnery, topography, and reconnaissance, ordnance, artillery materiel, tractors, field artillery drill and service regulations, hippology. One hour a week. *I, II; (½).*  
Assistant Professors BURR, CONNOR, BENNETT

**Junior Field Artillery**

**15a-16a. Practical.**—Field artillery drill regulations, field artillery tactics, field artillery gunnery and firing, equitation, care and training of the horse, mounted drill, conduct and observation of fire. Duties of officers and noncommissioned officers. Two hours a week. *I, II; (½).*  
Assistant Professors BURR, CONNOR, BENNETT

**15b-16b. Theoretical.**—Gunnery and conduct of fire, reconnaissance, liaison and communication, hippology, field artillery drill and service regulations. Three hours a week. *I, II; (1).*  
Assistant Professors BURR, CONNOR, BENNETT

**Senior Field Artillery**

**17a-18a. Practical.**—Field artillery drill regulations, conduct and observation of fire, smoke bombs, reconnaissance and tactics, equitation and mounted drill. Duties of officers and noncommissioned officers. Two hours a week. *I, II; (½).*  
Assistant Professors BURR, CONNOR, BENNETT

**17b-18b. Theoretical.**—Reconnaissance, field engineering and fortifications, military law, military history of the United States, rules and warfare, army administration. Three hours a week. *I, II; (1).*  
Assistant Professors BURR, CONNOR, BENNETT

**Freshman Cavalry**

**21a-22a. Practical.**—School of the trooper, mounted and dismounted; care of horses and horse equipment; individual instruction in use of rifle, pistol, saber, automatic rifle; guard duty; physical training; target practise, rifle and pistol. Two hours a week. *I, II; (½).*  
Assistant Professors GROW, WILLIAMS, STEWART

**21b-22b. Theoretical.**—General history and development of military forces, military policy of the United States; discipline and courtesy; small-arms firing; hygiene, 1st aid, sanitation; morale; cavalry drill and equitation. One hour a week. *I, II; (½).*  
Assistant Professors GROW, WILLIAMS, STEWART



### Sophomore Cavalry

**23a-24a. Practical.**—Mounted drill; equitation; care of horses and horse equipment; cavalry combat principles; saber exercises; guard duty; physical training; signalling; target practise, rifle and pistol, machine gun and automatic rifle. Two hours a week. *I, II; (½).*  
Assistant Professors GROW, WILLIAMS, STEWART

**23b-24b. Theoretical.**—Organization and administration; discipline and courtesy; small-arms firing; hygiene; first aid, sanitation; morale; liaison; topography; stable management. One hour a week. *I, II; (½).*

Assistant Professors GROW, WILLIAMS, STEWART

### Junior Cavalry

**25a-26a. Practical.**—Mounted drill and combat principles and minor tactics; selection and care of horses; rifle and pistol practise; packing; map making; duties of officers and noncommissioned officers. Three hours a week. *I, II; (½).*

Assistant Professors GROW, WILLIAMS, STEWART

**25b-26b. Theoretical.**—Cavalry drill regulations; combat principles and minor tactics; messing of troops; topography; field engineering; military and common law. Two hours a week. *I, II; (1)*

Assistant Professors GROW, WILLIAMS, STEWART

### Senior Cavalry

**27a-28a. Practical.**—Minor tactics; conformation, diseases, examination for soundness and shoeing of animals; making maps while mounted; rifle and pistol practise; packing; duties of officers and noncommissioned officers. Three hours a week. *I, II; (½).*

Assistant Professors GROW, WILLIAMS, STEWART

**27b-28b. Theoretical.**—Minor tactics, security and information; hippology; field engineering; troop administration; military history; courts-martial. Two hours a week. *I, II; (1).*

Assistant Professors GROW, WILLIAMS, STEWART

### Freshman Engineering

**31a-32a. Practical.**—Organization, military courtesy and discipline, infantry drill, care and handling of arms and equipment, guard duty, personal hygiene, sanitation, first aid, gallery practise, range practise, minor tactics, maps and map making, fortification, roads, railroads and bridges. Two hours a week. *I, II; (½).*

Assistant Professor ATKINS, Staff Sergeant JOHNSON

**31b-32b. Theoretical.**—Infantry drill regulations, theory of target practise, personal hygiene, first aid, sanitation, morale, minor tactics, duties of engineer troops, topography, bridge construction, road construction, fortification. One hour a week. *I, II; (½).*

Assistant Professor ATKINS, Staff Sergeant JOHNSON

### Sophomore Engineering

**33a-34a. Practical.**—Review of subjects given in 31a-32a, and practical application of subjects given in 33b-34b, general construction. Two hours a week. *I, II; (½).*

Assistant Professor ATKINS, Staff Sergeant JOHNSON

**33b-34b. Theoretical.**—Advanced work in subjects 31b-32b, more time being devoted to engineer features of the work. One hour a week. *I, II; (½).*

Assistant Professor ATKINS

**Junior Engineering**

**35a-36a. Practical.**—Duties of engineer officers and noncommissioned officers, equitation, engineering operations consisting of field problems, bridges, railroads and roads, general construction, mechanical equipment and ordnance. Two hours a week. *I, II; (½).*

Assistant Professor ATKINS, Master Sergeant KELLY

**35b-36b. Theoretical.**—Camp sanitation and care of troops in the field, minor tactics, administration, military history and policy, military law, engineering problems. Three hours a week. (1). *Or*, one hour a week of military science (½); and two hours a week of a technical elective in the College of Engineering (for which credit will be given in that College.) *I, II.*

Assistant Professor ATKINS

**Senior Engineering**

**37a-38a. Practical.**—Duties of engineer officers, including problems in minor tactics of engineering nature, engineer drills, review of 35a-36a. Two hours a week. *I, II; (½).*

Assistant Professor ATKINS, Master Sergeant KELLY

**37b-38b. Theoretical.**—Review of 35b-36b, manual courts-martial, rules of land warfare, solution of problems of an engineering nature in minor tactics and construction. Three hours a week. (1). *Or*, one hour a week of military science (½); and two hours a week of a technical elective in the College of Engineering (for which credit will be given in that College); *I, II.*

Assistant Professor ATKINS

**Freshman Signal Corps**

**41a-42a. Practical.**—Organization, military courtesy and discipline, drill, care and handling of equipment, small-arms firing, personal hygiene, first aid, sanitation, interior guard duty, minor tactics. Two hours a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

**41b-42b. Theoretical.**—Principles of organization and administration of a company, military hygiene, first aid and sanitation, military courtesies and customs of the service, interior guard duty, ceremonies, the infantry pack, the 45-caliber automatic pistol, international Morse code, operation of telephones and switchboards. One hour a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

**Sophomore Signal Corps**

**43a-44a. Practical.**—Problems in map reading, sketching, practise in general service code, installation of telephones, care and repair of telephones, operation and care of monocrd switchboard, simple rules for location of line trouble, setting up and taking down antennas, opening and closing stations, operation of station including use of wavemeter, operation of station in a net. Two hours a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

**43b-44b. Theoretical.**—Function of the various arms, composition of a division, signal troops as part of field forces, map reading, simple telegraph systems, telegraph codes in use, theory of the telephone, study of different types issued by signal corps, principles of telephone switching and of the monocrd switchboard, classification of various radio sets used by the signal corps, organization of radio section, control of radio sets, net operation. One hour a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

### Junior Signal Corps

**45a-46a. Practical.**—Map maneuvers, war game, problems on map and sand table, tactical walks, participation with unit in tactical exercises, demonstrations, military field engineering problems in signal tactics, practise in writing signal orders, practise in making and reading circuit diagrams, writing of work orders, company paper work, company administration, operation of a message center, construction and maintenance of field lines, radio engineering. Two hours a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

**45b-46b. Theoretical.**—Offensive and defensive conduct of small units, elements of field engineering to include the principles and methods of military field engineering in all types of trenches and obstacles, organization of various arms and their functions, combined use of all arms, communication as an essential part of modern tactics, communication requirements, signal corps organization and tactics designed to fulfill these requirements, necessity for message center system, scheme of organization, theory of radio telegraph. Three hours a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

### Senior Signal Corps

**47a-48a. Practical.**—Moot courts, operation of a message center, work in encoding and decoding, enciphering and deciphering, installation and maintenance of field centrals, practical operation using telephone code, advanced telephone, telegraph and radio engineering. Two hours a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

**47b-48b. Theoretical.**—Military history and policy of the United States, the articles of war, courts-martial, evidence, rules of land warfare, lectures on care of public animals, staff duties in division and smaller units, signal corps relations, theory of codes and ciphers, their secrecy under field conditions, simple methods of solution, advanced telephone, telegraph, and radio engineering, thermionic valves. Three hours a week. *I, II; (½).*

Assistant Professor RUMBOUGH, Master Sergeant LYNCH

### Freshman Aviation (Heavier and Lighter than Air)

**51a-52a. Practical.**—Organization, military courtesy, discipline, drill, hygiene, first aid, sanitation, care and handling of arms, and equipment, small-arms firing, interior guard duty, code and buzzer and visual signaling, construction and operation of wire telephones, military sketching and map reading. Two hours a week. *I, II; (½).*

Assistant Professor WHITESIDES

**51b-52b. Theoretical.**—Principles of organization and administration of a squadron, military hygiene, first aid and sanitation, fundamental principles of military customs, courtesies and discipline, interior guard duty, school of the soldier, squad, platoon, and squadron, ceremonies, description, nomenclature, care and use of the rifle and the .45-calibre automatic pistol, elementary electricity and magnetism, history and development of aeronautics, characteristics, limitations and employment of the air service, air service organization in general. One hour a week. *I, II; (½).*

Assistant Professor WHITESIDES

### Sophomore Aviation (Heavier and Lighter than Air)

**53a-54a. Practical.**—Problems in map reading, sketching miniature range, infantry

drill, fundamentals of leadership, duties of noncommissioned officers, taking down and assembling automatic rifle, range practise and matches with the .45-calibre automatic pistol, the aerial machine guns, drill and stripping ring sights, gears, exercises and problems in patrolling, tactical walks, use of ground, messages and reports, miniature range, artillery adjustments. Two hours a week. *I, II; (½).* Assistant Professor WHITESIDES

**53b-54b. Theoretical.**—Map reading, military sketching and map coordinates, fundamentals of leadership, infantry drill regulations, the .45-calibre pistol, preliminary instructions in marksmanship, the automatic rifle, the aerial machine gun, principles governing patrolling, messages and reports, operation of standard ground and airplane radio sets, artillery and infantry liaison, moving pictures of air service subjects will be shown during additional hours. One hour a week. *I, II; (½).* Assistant Professor WHITESIDES

#### Junior Aviation (Heavier than Air)

**55a-56a. Practical.**—Military field engineering problems, minor tactics, map maneuvers, war game, tactical walks, radio mechanics section, shop, bench and lathe work, installation and repair of standard ground and airplane radio sets, buzzer practise, miniature range, artillery adjustment, interpretation of aerial photographs, map making from aerial photographs, aeronautical engines, shop work, trouble shooting. Two hours a week. *II; (½).* Assistant Professor WHITESIDES

**55b-56b. Theoretical.**—Elements of field engineering, trenches, concealment and camouflage, offensive and defensive conduct of small units, organization of the ground, ammunition supply, liaison agents of the command, liaison by airplanes and balloons, radio mechanics section, cameras, types, with purpose and characteristics of each, study of details from aerial photographs, aeronautical engines, principles, carburation, ignition, lubrication, cooling, trouble shooting, types of engines, aerial gunnery, theory and general information, aerial bombardment. Three hours a week. *I, II; (1).* Assistant Professor WHITESIDES

#### Senior Aviation (Heavier than Air)

**57a-58a. Practical.**—Squadron paper work, squadron administration, moot courts, direction finding, nomenclature of standard radio equipment, airplane rigging, nomenclature and construction of airplanes, assembling and alignment repair, and inspection, care of machines, patching, mending and doping, splicing, and soldering, mending longerons, instruments, types of service planes. Two hours a week. *I, II; (½).*

Assistant Professor WHITESIDES

**57b-58b. Theoretical.**—Important U. S. campaigns and battles, history of the Military Policy of the United States, history and development of military aeronautics, the article of war, courts-martial, evidence, rules of land warfare, aerial navigation, meteorology, air service organization, air service operations, aerial tactics, theory of flight, aerodynamics, stability, control, airplanes, nomenclature, rigging, material and stresses, wood fabrics and dopes, wire and fittings, propellers. Three hours a week. *I, II; (1).*

Assistant Professor WHITESIDES

### MINING ENGINEERING

HARRY HARKNESS STOEK, B.S., E.M., D.Sc., *Professor, Head of the Department*

ARTHUR EILER DRUCKER, B.S., *Assistant Professor*

RAY WALTER ARMS, E.M., *Associate*

JAMES RUSSELL FLEMING, E.M., *Research Associate, Engineering Experiment Station*

**1. Earth and Rock Excavation.**—Explosives; blasting; boring; tunneling; shaft-sinking; coal-cutting; timbering and prospecting. *I; (3).* (For mining students only.)

Professor STOEK

*Prerequisite:* Chemistry 1a or 1b.

**2. Mining Principles.**—Terminology; explosives and blasting; well and rock drilling; coal-cutting; shaft-sinking and tunneling; methods of working and timbering flat and inclined deposits. For students in courses other than mining. Of special interest to those taking advanced military work. *I* or *II*; (3). Professor STOEK

*Prerequisite:* Chemistry 1a or 1b; junior standing.

**4. Mining Methods.**—Mining and timbering of bedded, vein, and placer deposits. *II*; (3). Professor STOEK

*Prerequisite:* Mining 1.

**5. Mine Ventilation.**—Mine gases; safety lamps; mine ventilation; lighting and signaling; explosions and mine fires; rescue work and first aid. Laboratory work. *I*; (3). Mr. ARMS

*Prerequisite:* Chemistry 1a or 1b, 4; Physics 1a-1b, 3a-3b; Mining 4.

**6. Mechanical Engineering of Mines.**—Hoisting; ropes, cages, hoisting engines, and other appliances. Haulage: the different systems used underground and on the surface; the methods of loading and unloading; mine stables; transportation of workmen. Drainage of mines; mine dams, mine pumps. *II*; (3). Mr. ARMS

*Prerequisite:* Mechanical Engineering 1, or equivalent.

**8. Mine and Metallurgical Law, Administration, and Accounts.**—Laws governing location, ownership, and policing of mines. Trade agreements, relations between employers and employees. Sociology. Accounts and cost sheets. *II*; (2). Professor STOEK

*Prerequisite:* Mining 4 and 21.

**9. Preparation of Coal and Ores.**—History, principles, processes, machines; applications to dry coal preparation and coal washing. Breaking, sizing, and concentrating ores. Laboratory practise in coal washing. *I*; (3). Mr. ARMS

*Prerequisite:* Chemistry 5; Physics 3a-3b.

**10. Electrical Engineering of Mines.**—Elementary principles of electrical machinery; direct-current motors and generators, storage batteries; power plant equipment; alternating current motors and generators; mining applications of electrical machinery. *II*; (3). Mr. ARMS

*Prerequisite:* Physics 1a-1b.

**13. Utilization of Fuels.**—The manufacture, handling, and utilization of wood, charcoal, peat, lignite, bituminous coal, anthracite, coke, petroleum, natural and artificial gas, and refractories in mining and metallurgical practise. *II*; (2). Professor STOEK

*Prerequisite:* Junior standing.

**15. Principles of Mine Ventilation.**—Mine ventilation, signaling, and lighting. *I*; (2). Mr. ARMS

*Prerequisite:* Physics 3a-3b; Mining 2 or 3 or 4.

**[17. Problems.**—Problems, library research, and reports on mining and metallurgical subjects. *I*; (1). Not given in 1920-1921.

*Prerequisite:* Senior standing in mining engineering.]

**19. Ore and Coal Preparation.**—Principles and machines used in breaking, pulverizing, sizing, classifying, and concentrating ores and mineral products. Wet and dry concentration. Practical limits of ore dressing. Principles applied in coal preparation. Laboratory practise in ore concentration. *I*; (3). Mr. ARMS

*Prerequisite:* Chemistry 5; Geology 20 or equivalent.

**21. Mine Examination and Valuation.**—The methods of examining, valuing, and reporting on mines, mining and metallurgical plants. Estimation and prospecting of mineral deposits. *I*; (2). Professor STOEK

*Prerequisite:* Mining 1 or 2 or 4, or registration in Mining 2; Geology 20 and 43 or equivalent.

**41. Principles of Coal Plant Design.**—Design of mine structures of wood, steel, and masonry, with drafting practise in design of coal tipples and general surface plant. *I*; (3).

Mr. ARMS

*Prerequisite:* Civil Engineering 58, or equivalent.

**42. Coal Plant Design.**—General layout; design; estimates for construction and specifications for coal mining plant. *II*; (2).

Mr. ARMS

*Prerequisite:* Mining 41.

**43. Principles of Ore Plant Design.**—Design of mine structures of wood, steel, and masonry, with drafting practise in design of rock houses, ore bins, and crushing plants. *I*; (3).

Mr. ARMS

*Prerequisite:* Civil Engineering 58, or equivalent.

**44. Ore Plant Design.**—General layout; design; estimates for construction and specifications for ore mining plants. *II*; (2).

Mr. ARMS

*Prerequisite:* Mining 43.

**45. Principles of Mill and Smelter Design.**—Flow sheets and structures of wood, steel, and masonry; drafting practise on individual designs; *I*; (3).

Mr. ARMS

*Prerequisite:* Civil Engineering 58, or equivalent.

**46. Mill and Smelter Design.**—Flow sheets; design; estimates for construction, and specifications for concentrating plant or smelter. *II*; (2).

Mr. ARMS

*Prerequisite:* Mining 45.

**[61. Elementary Mine Surveying.**—The theory, use, and adjustment of the compass, transit, and level; the computation of areas and volumes; bore hole surveys; map construction; corners and boundaries; elements of mine surveying. Problems with tape, compass, transit, and level. *I*; (3). Not given in 1920–21.

Mr. ARMS

*Prerequisite:* General Engineering Drawing, 1, 2; Mathematics 4.]

**62. Mine Surveying.**—The application of general surveying methods to mine work; description and use of instruments employed underground and in connecting surface and underground surveys; the platting and use of mine maps; mineral land surveying; the theory and use of solar attachments; determination of the meridian. A surveying trip is made to neighboring mines, of which the estimated cost is \$10.00. *II*; (3).

Mr. ARMS

*Prerequisite:* Civil Engineering 35 or Mining 61.

**64. Coal Mining Laboratory.**—Different coals; their availability for crushing, dry preparation, washing, and briquetting. Complete commercial tests, using small commercial machines wherever possible; design of flow sheets; analysis of products. Estimation of probable costs. *II*; (3).

Mr. ARMS

**66. Ore Concentration Laboratory.**—Complete commercial wet and dry concentration tests on raw ores of lead, zinc, iron, etc. Amalgamation and cyanidation of a gold ore. Sampling, preparation, and analysis or assay of the products recovered. *II*; (3).

*Prerequisite:* Mining 9 or 19.

Mr. ARMS

**[68. Mine Topography.**—Stadia; application of topographic and railroad surveying to mining conditions. *II*; (1). Not given in 1920-21. Mr. ARMS

*Prerequisite:* Civil Engineering 35 or Mining 61.]

**90. Mining and Metallurgical Reports.**—Review of mining and metallurgical literature; reports; technical writing. *II*; (2). Professor STOEK

**98. Thesis**—In accordance with regulations of College of Engineering.

**99. Mining Inspection Trip.**—No credit.

*Prerequisite:* Senior standing.

## MUNICIPAL AND SANITARY ENGINEERING

ARTHUR NEWELL TALBOT, D.Sc., D.Eng., *Professor*

MELVIN LORENIUS ENGER, M.S., C.E., *Professor, Mechanics and Hydraulics*

HAROLD EATON BABBITT, M.S., *Assistant Professor*

**2. Water Supply Engineering.**—The principal features of water supply engineering; source of supply; hydraulics of wells; stream flow; impounding and storage reservoirs; conduits and pipe lines; pumps and pumping machinery; stand pipes and elevated tanks; the distribution system; tests and standards of purity of potable water. Designing weekly. *I*; (4). Professor ENGER, Assistant Professor BABBITT

*Prerequisite:* Theoretical and Applied Mechanics 29, 10; Chemistry 1; Mechanical Engineering 1 or 2.

**3. Sewerage.**—Sewerage systems; sanitary necessity of sewerage; separate and combined water carriage systems; surveys and general plans; hydraulics; house sewage and its removal; rainfall and storm-water flow; size and capacity of sewers; sewer appurtenances; sewage disposal; estimates and specifications. Designing weekly. *II*; (3).

Assistant Professor BABBITT

*Prerequisite:* Theoretical and Applied Mechanics 29, 10; Chemistry 1; Municipal and Sanitary Engineering 2.

**6a-6b. Water Purification, Sewage Disposal, and General Sanitation.**—Water purification; design of water purification works; standards and tests of purity of potable water. Sewage disposal; design of sewage treatment works; garbage collection and disposal; sanitary restrictions and regulations and general sanitation. The sanitation of army camps, hospitals, and industrial communities. Lectures; seminar work; drafting. *I*; (3); *II*; (2). Professor TALBOT, Assistant Professor BABBITT

*Prerequisite:* Municipal and Sanitary Engineering 2, 3; Chemistry 1, 3, 10b.

**9. Hydraulic Design and Construction.**—Reservoirs, dams, conduits, and waterways; hydraulic engineering problems. *II*; (2). Professor ENGER

**10. Waterworks and Sewerage. Laboratory Work.**—Test of pumps; resistance to flow in piping; hydraulics of wells; hydraulics of water filters, sewers and sewage disposal plants; fire protection problems. *I* or *II*; (2).

Professor ENGER and Assistant Professor BABBITT

*Prerequisite:* Theoretical and Applied Mechanics 10.

**98. Thesis.**—Investigation or design of an engineering problem. *II*; (2).

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

## Courses for Graduates

Entrance on graduate work in municipal and sanitary engineering presupposes a full undergraduate course in that subject.

**102. Water Supply Engineering.**—Water supply; general waterworks construction; pumps and pumping; reservoirs and elevated tanks; waterworks operation; valuation of plants. *One to three times a week; I or II; (1 unit).* Professor ENGER

**103. Sewerage.**—Design and construction of sewerage systems; hydraulics of sewers; run-off. *Once or twice a week; II; (1 unit).* Professor ENGER

**106. Water Purification, Sewage Disposal, and General Sanitation.**—Water purification plants and sewage disposal works; comparison of results and cost of construction and operation; experimental work on water and sewage treatment; garbage; general sanitation. *Once a week; II; (½ unit or more).* Professor TALBOT

## MUSIC

JOHN LAWRENCE ERB, F.A.G.O., *Director and University Organist*

GEORGE FOSS SCHWARTZ, B.Mus., A.M., *Assistant Professor of the Theory and History of Music*

ALBERT AUSTIN HARDING, B.Mus., *Assistant Professor of Wind Instruments and Director of the Band*

HENRI JACOBUS VAN DEN BERG, *Instructor in Piano*

EDNA ALMEDA TREAT, B.Mus., *Instructor in Piano and Organ*

FRANK TATHAM JOHNSON, *Instructor in Voice*

ARTHUR BERESFORD, *Instructor in Voice*

MARY DODDS PHILLIPS, *Instructor in Public School Music*

KATHARINE ELIZABETH SEELYE, A.B., *Instructor in Piano*

CAROLINE HESS, *Instructor in Voice*

LILLIAN IRENE RUTLIN, *Instructor in Voice*

OLIVE MEYERS GOOCH, *Instructor in Piano*

ESTHER HAYES VINCENT, B.Mus., A.B., *Instructor in Piano*

FRED A BEIDLEMAN, B.S., B.Mus., *Instructor in Violin*

**1-2. History of Music.**—*I, II; (2).* Assistant Professor SCHWARTZ

*Prerequisite:* One year of university work.

**3-4. Theory of Music (Harmony).**—*I, II; (2).* Assistant Professor SCHWARTZ

**5-6. Theory of Music (Harmony).**—Continuation of 3-4. *I, II; (3).* Assistant Professor SCHWARTZ

*Prerequisite:* Music 3-4.

**7-8. Counterpoint, Canon, and Fugue.**—*I, II; (3).* Assistant Professor SCHWARTZ

*Prerequisite:* Music 5-6.

**9-10. General Theory and Analysis.**—*I, II; (2).* Director ERB

*Prerequisite:* Music 7-8.

**11-12. Acoustics.**—*I, II; (1).* Director ERB

*Prerequisite:* Music 3 to 8 inclusive.

**13-14. Musical Appreciation.**—*I, II; (1).* Director ERB

**21a-21b. Ear Training, First Year.**—*I, II; (no credit).* Miss PHILLIPS



- 22a-22b. Ear Training, Second Year.—*I, II; (1).* Miss PHILLIPS
- 23a-23b. Sight Singing, First Year.—*I, II; (no credit).* Miss PHILLIPS
- 24a-24b. Sight Singing, Second Year.—*I, II; (1).* Miss PHILLIPS
- 25a-25b. Methods of Teaching.—(Primarily for students preparing to teach music in the public schools.) *I, II; (4).* Miss PHILLIPS
- 27a-27b. Ensemble.—*I, II; (1).*
- 28a-28b. Sight Singing, Elementary.—One hour a week for beginners. *I, II; (no credit).* Miss PHILLIPS

## Piano

Mr. VAN DEN BERG, Miss TREAT, Miss SEELYE, Miss GOOCH, Miss VINCENT

- 41c-41d. Introductory Course in Piano, Second Year.—*I, II; (no collegiate credit).*
- 41e-41f. Introductory Course in Piano, Third Year.—*I, II; (no collegiate credit).*
- For all courses Music 42a to 47b, inclusive.—  
*Prerequisite:* Music 41c-f or equivalent.
- 42a-42b. Piano, First Year.—*I, II; (4).*
- 43a-43b. Piano, Second Year.—*I, II; (4).*
- 44a-44b. Piano, Third Year.—*I, II; (4).*
- 45a-45b. Piano, Fourth Year.—*I, II; (4).*
- 46a-46b, 46c-46d, 46e-46f, 46g-46h. Piano.—Piano taken as a minor by students majoring in voice, violin, or organ. *I, II; (2).*
- 47a-47b, 47c-47d, 47e-47f, 47g-47h. Piano.—For students from other departments of the University. *I, II; (2).*

## Voice

Mr. JOHNSON, Mr. BERESFORD, Miss HESS, Miss RUTLIN

- 51c-51d. Introductory Course in Voice, Second Year.—*I, II; (no collegiate credit).*
- 51e-51f. Introductory Course in Voice, Third Year.—*I, II; (no collegiate credit).*
- For all courses Music 52a to 57h, inclusive.—  
*Prerequisite:* Music 51c-f or equivalent.
- 52a-52b. Voice, First Year.—*I, II; (4).*
- 53a-53b. Voice, Second Year.—*I, II; (4).*
- 54a-54b. Voice, Third Year.—*I, II; (4).*
- 55a-55b. Voice, Fourth Year.—*I, II; (4).*
- 56a-56b, 56c-56d, 56e-56f, 56g-56h. Voice.—Voice taken as a minor by students majoring in piano, violin, or organ. *I, II; (2).*
- 57a-57b, 57c-57d, 57e-57f, 57g-57h. Voice.—For students from other departments of the University. *I, II; (2).*

## Violin

Mr. BEIDLEMAN

**61c-61d. Introductory Course in Violin, Second Year.—I, II; (no collegiate credit).****61e-61f. Introductory Course in Violin, Third Year. I, II; (no collegiate credit).**

For all courses, Music 62a to 67h, inclusive.—

*Prerequisite:* Music 61c-f or equivalent.**62a-62b. Violin, First Year.—I, II; (4).****63a-63b. Violin, Second Year.—I, II; (4).****64a-64b. Violin, Third Year.—I, II; (4).****65a-65b. Violin, Fourth Year.—I, II; (4).****66a-66b, 66c-66d, 66e-66f, 66g-66h. Violin.—Violin taken as a minor by students majoring in piano, voice, or organ. I, II; (2).****67a-67b, 67c-67d, 67e-67f, 67g-67h. Violin.—For students of other departments of the University. I, II; (2).**

## Violoncello

Mr. SCHWARTZ

**71c-71d. Introductory Course in Violoncello, Second Year.—I, II; (no collegiate credit).****71e-71f. Introductory Course in Violoncello, Third Year.—I, II; (no collegiate credit).**

For all courses, Music 72a to 77h, inclusive.—

*Prerequisite:* Music 71c-f or equivalent.**72a-72b. Violoncello, First Year.—I, II; (4).****73a-73b. Violoncello, Second Year.—I, II; (4).****74a-74b. Violoncello, Third Year.—I, II; (4).****75a-75b. Violoncello, Fourth Year.—I, II; (4).****76a-76b, 76c-76d, 76e-76f, 76g-76h. Violoncello.—Violoncello taken as a minor by students majoring in piano, voice, or violin. I, II; (2).****77a-77b, 77c-77d, 77e-77f, 77g-77h. Violoncello.—For students from other departments of the University. I, II; (2).**

## Organ

Director ERB, Miss TREAT

Students desiring to take *organ* will be obliged to pass without conditions the entrance examination in piano. Under no circumstances will they be accepted if their piano work falls below the standard represented by this examination.

**81-82. Organ, First Year.—I, II; (4).****84-85. Organ, Second Year.—I, II; (4).****86-87. Organ, Third Year.—I, II; (4).****88-89. Organ, Fourth Year.—I, II; (4).**

**83a-83b, 83c-83d, 83e-83f, 83g-83h. Organ.—Organ taken as a minor by students majoring in piano, voice, or violin or enrolled in another School or College of the University. I, II; (2).**

Band and Recital Work

- 90a-90b. **Band Instruments.**—Band instruments taken as a minor by students majoring in piano, voice, or violin. *I, II; (2).* Mr. HARDING
- 92c-92d. **Band Instruments.**—*I, II; (no credit).* Mr. HARDING
- 94a-94b. **Recital Course in Practical Music.**—(For juniors and seniors in Music 44a-44b, 45a-45b, 54a-55b, 55a-55b, 64a-64b, 65a-65b, 86-87, 88-89.) *I, II; (1).*
- 96a-96b. **Band Instrumentation.**—*II; (no credit).* Mr. HARDING
- 97a-97b. **Band Arranging.**—*II; (no credit).* Mr. HARDING
- 98a-98b. **Band Conducting.**—*II; (no credit).* Mr. HARDING

Summer Session Courses

- S1. Musical History.**—From the beginning of music to the Middle Ages. Collateral reference work and note books. (1) Director ERB  
*Prerequisite:* The consent of the instructor.  
*Equivalent:* Music 1 (second half).
- S3. Harmony.**—Summary and drill in scales and key, intervals, triad construction and connection; harmonization of figured bass and given melody; harmonization in two clefs. (1). Director ERB  
*Prerequisite:* The rudiments of theory.  
*Equivalent:* Music 3 (first half).
- S5. Sight Singing.**—Elementary course, music notation; scale structure; solfeggio. No university credit. Miss PHILLIPS  
*Prerequisite:* Entrance credit.  
*Equivalent:* Music 23a (first half).
- S6. Public School Music Methods.**—Problems of supervision in the grades; study of material and technic of teaching. (3). Miss PHILLIPS  
*Prerequisite:* 2 years of sight reading and the consent of the instructor.  
*Equivalent:* Music 25a (in part).
- S7. Ear Training, Elementary Course.**—Formation and recognition of intervals, separately and in combinational rhythmic drill; melody making and writing. No university credit. Miss PHILLIPS  
*Prerequisite:* Entrance credit.  
*Equivalent:* Music 21a (first half).
- S41-41f. Introductory Course in Piano.**—No university credit. Miss TREAT  
*Prerequisite:* The consent of the instructor.  
*Equivalent:* Music 41a-41f (in part)
- S42-46. Piano, Collegiate Grade.**—(1 or 2). Miss TREAT  
*Prerequisite:* Three years of piano study.  
*Equivalent:* Music 42-46 (in part).
- S47. Piano, Collegiate Grade.**—For students in other schools and colleges of the University. (1). Miss TREAT  
*Prerequisite:* Three years of piano study.  
*Equivalent:* Music 47 (in part).

**S51-51f. Introductory Course in Voice.**—No university credit. Mr. JOHNSON  
*Prerequisite:* The consent of the instructor.  
*Equivalent:* Music 51a-51f (in part).

**S52-56. Voice, Collegiate Grade.**—For students in other schools and colleges of the University. (1 or 2). Mr. JOHNSON  
*Prerequisite:* Three years of vocal study.  
*Equivalent:* Music 52-56 (in part).

**S57. Voice, Collegiate Grade.**—For students in other schools and colleges of the University. *Arrange hours.* (1). Mr. JOHNSON  
*Prerequisite:* Three years of vocal study.  
*Equivalent:* Music 57 (in part).

**S81. Organ.**—(1). Director ERB, Miss TREAT  
*Prerequisite:* Three years of piano study or the equivalent.  
*Equivalent:* Music 81 (in part).

**S83. Organ.**—For students in other schools and colleges of the University. (1). Miss TREAT  
*Prerequisite:* Three years of piano study or the equivalent.  
*Equivalent:* Music 83 (in part).

Students desiring to take organ will be obliged to pass without conditions the entrance examination for collegiate standing in piano.

## ORIENTAL LANGUAGES AND LITERATURE

ALBERT TEN EyCK OLMSTEAD, Ph.D., *Professor*

### Courses for Advanced Undergraduates and Graduates

**1a-1b. Elementary Hebrew.**—Grammar and reading. The Book of Genesis. *I, II;*  
 (3).  
*Prerequisite:* Junior standing, including at least sixteen hours of college work in foreign languages.

## PALEONTOLOGY

(GEOLOGY)

## PHILOLOGY

(See CLASSICS, COMPARATIVE PHILOLOGY, ENGLISH LANGUAGE AND LITERATURE, and ROMANCE LANGUAGES AND LITERATURE.)

## PHILOSOPHY

(See also PSYCHOLOGY and EDUCATION)

ARTHUR HILL DANIELS, Ph.D., *Professor*

BOYD HENRY BODE, Ph.D., *Professor*

AXEL BRETT, A.M., *Assistant*

**Major:** Twenty hours from any courses offered by the department, including Philosophy 1, 2, 3, and 4, and one other advanced course. Six hours in psychology may be counted toward a major in philosophy.

**Minors:** Twenty hours in (a) psychology (at least six additional hours, if psychology is counted toward a major), and one other subject in the following list; or (b) any two subjects in the same group in the following list: (A) economics, history, political science, education, sociology; (B) English, French, German, Greek, Latin; (C) botany, chemistry, geology, mathematics, physics, zoology. No course in any subject of the above groups may be counted for the minor requirement if it is excluded from the major requirement of its respective department.

### Courses for Undergraduates

1. **Logic.**—The principles of reasoning; detection of fallacies; evidence. *I* or *II*; (3).  
Professor BODE, Mr. BRETT

*Prerequisite:* One year of university work.

2. **Introduction to Philosophy.**—Philosophic problems in their relation to the doctrine of evolution and in their bearing on conduct and religion. *II*; (3).

Professor BODE, Mr. BRETT

*Prerequisite:* Two years of university work.

### Courses for Advanced Undergraduates and Graduates

3. **History of Ancient and Medieval Philosophy.**—*I*; (3).  
Professor DANIELS  
*Prerequisite:* Three hours in philosophy; junior standing.

4. **History of Modern Philosophy.**—From the Renaissance to the present time. *II*; (3).  
Professor DANIELS  
*Prerequisite:* Three hours in philosophy; junior standing.

[5. **Political Philosophy.**—A study of significant theories of the state, ancient, medieval and modern; state sovereignty and morality with special reference to international relations. *II*; (3). Not given in 1920–21.  
Professor DANIELS

*Prerequisite:* Senior or graduate standing; one year of college history, and political science 1 or 3.]

7. **Ethics.**—The beginnings and growth of morality; the fundamental questions of ethical theory; social and economic problems of the present. *II*; (3).

Professor DANIELS

*Prerequisite:* Three hours in philosophy; senior standing.

9. **Political and Social Ethics.**—A study of the standards and principles of human conduct in political and social relations. Rights and duties of the state and the citizen. International morality. *I*; (3).

Professor DANIELS, Mr. BRETT

*Prerequisite:* Two years of university work.

15. **British Philosophers of the Eighteenth Century.**—Locke, Berkely, and Hume. *I*; (3).

Professor BODE

*Prerequisite:* Philosophy 2 or 3 or 4.

16. **Philosophy of Pragmatism.**—*II*; (3).

Professor BODE

*Prerequisite:* Philosophy 15.

### Courses for Graduates

Students entering on graduate work in philosophy must have had a thoro course in the history of philosophy, a course in logic, and a general course in psychology.

**103. Seminar in Ethics.**—British ethics from Hobbes to Sidgwick. Twice a week; *II*; (1 unit). Professor DANIELS

[107a-107b-107c. **History of Philosophy.**—a: Plato and Aristotle. Twice a week; (1 unit). b: Descartes, Spinoza, and Leibniz. Twice a week; (1 unit). c: Kant and Schopenhauer. Twice a week; *I, II*; (1 unit). Not given in 1920-21.

Professor DANIELS]

**108a-108b-108c. Seminar in Contemporary Philosophy.**—a: Idealism. Twice a week; (1 unit). b: Realism and pragmatism. Twice a week; (1 unit). c: The philosophy of Bergson. Twice a week; (1 unit). *I, II*. (The subjects in 1919-20 will be determined by the needs of the students registered.) Professor BODE

### Summer Session Course

#### Course for Advanced Undergraduates and Graduates

**S9. Political and Social Ethics.**—A study of the standards and principles of human conduct in political and social relations. Rights and duties of the state and the citizen. International morality. (2). Professor DANIELS

*Prerequisite:* Two years of university work or the equivalent.

*Equivalent:* Philosophy 9.

### PHOTOGRAPHY

ARTHUR GRENVILLE ELDREDGE, *Instructor*

**1-2<sup>1</sup>. The Principles and Practise of Photography.**—Lenses, cameras; plates and films; exposure; development; printing; copying; positives; landscape, architectural, and scientific photography; speed work, color photography. Lectures; demonstrations; each student is required to produce a stated amount of work covering processes treated. (For advanced students who use photography in connection with their special subjects.) *I, II*; Once a week; (no credit). Mr. ELDREDGE

*Prerequisite:* Junior standing and the consent of the instructor.

### PHYSICAL EDUCATION FOR MEN

GEORGE A HUFF, B.S., *Director*

ROBERT CARL ZUPPKE, Ph.B., *Assistant Professor of Football*

JOHN L GRIFFITH, A.B., *Assistant Professor of Physical Education*

HARRY LOVERING GILL, *Associate in Track*

CARL LEONARD LUNDGREN, B.S., *Associate in Baseball*

FRANK J WINTERS, B.P.E. *Associate in Basketball*

ERNEST ELMER BEARG, A.B., *Instructor in Football and Basketball*

ARTHUR JAMES SCHUETTNER, E.G., *Associate, Director of Men's Gymnasium*

EDWIN JOHN MANLEY, *Instructor in Swimming*

DAVID MADISON BULLOCK, *Assistant in Training*

ERNESTO RAY KNOLLIN, A.B., *Assistant in Physical Education*

PAUL HENRY PREHN, *Instructor in Wrestling and Boxing*

**1-2. Gymnasium Practise.**—Two hours' gymnasium each week. (Required of freshmen.) *I, II*; ( $\frac{1}{2}$ ), (1). Mr. SCHUETTNER, Mr. KNOLLIN

**1a. Personal Hygiene.**—Lectures by Dean of Men and Health Officer. Required in conjunction with Physical Education 1. *I or II*; ( $\frac{1}{2}$ ). (Required second semester for all freshmen and new students who did not take the course the first semester).

Dean CLARK, Dr. BEARD

<sup>1</sup>This course is continuous throughout the year.

**3. Elementary Gymnastics, Boxing, Wrestling, and Fencing.**—Two hours' gymnasium exercise each week. *I*; (1). Mr. SCHUETTNER, Mr. KNOLLIN, Mr. PREHN

*Prerequisite:* Physical Education 1 and 2 and consent of the instructor.

**4. Advanced Physical Education.**—(Continuation of Physical Education 3). Two hours' gymnasium exercise each week. *II*; (1).

Mr. SCHUETTNER, Mr. KNOLLIN, Mr. PREHN

*Prerequisite:* Physical Education 3 and consent of instructor.

### Summer Session Courses

**NOTE.**—Courses in physical education for men continue through only six (6) weeks.

#### A. ATHLETIC COACHING

**S10. Baseball.**—Batting; base running; fielding each position; team work and coaching; rules; physical condition; indoor practise. Lectures; practical work. (1½).

Director HUFF

**S11. Track and Field Athletics.**—Starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer and discus throwing; preparing contestants for events; individual peculiarities; rules; physical condition; promotion; management, and officiating of games and meets. Lectures, practical work. (1½).

Mr. GILL

**S12. Basketball.**—Coaching; passing; goal throwing; dribbling; team play; conditioning; the different styles of play used by leading coaches. Lectures; practical work. (1½).

Mr. WINTERS

**S13. Football.**—Rules; offense and defense; generalship and strategy. Training; conditioning; equipment; kicking, forward passing; tackling dummy and charging sled; drills for linemen, ends, and backs; following the ball, interference, team work; fundamental plays, freak plays, signal systems. Lectures; practical work. (1½). Mr. ZUPPKE

**S14. Training.**—Training, massage, treatment of sprains, bruises; bandaging and first aid. Lectures; practical work. (½).

Mr. BULLOCK

#### B. GYMNASTICS

**S15. Calisthenics.**—Typical lessons for corrective and responsive work. Instruction given in free exercises. The course covers the use of wands, clubs, and dumb-bells. (½).

Mr. SCHUETTNER

**S17. Elementary Gymnastics.**—Theory and practise in elementary exercises on mats, horse, horizontal bar, rings, and parallel bars. Accuracy of form and execution emphasized. A large variety of rapid mass work adapted to the average class. (½). Mr. SCHUETTNER

**S20. Organization and Administration of Physical Education.**—Problems in organization and administration in physical education and athletics. Study of intercollegiate, intra-mural, and mass athletics. Sportsmanship and ethics. (1½). Mr. GRIFFITH

**S21. Gymnastic Dancing.**—(a) Elements of steps, simple steps and series dancing; (b) Practise teaching and more advanced steps. (½).

Mr. SCHUETTNER

**PHYSICAL EDUCATION FOR WOMEN**VERNA BROOKS, A.B., *Acting Director*ANNA LUE HUGHITT, *Instructor*MARY NOBLE, B.S., *Instructor*MARGARET BARTO, A.M., *Instructor*CAROLINE RUTH MORRIS, A.M., *Instructor*MADGE RUSH LEWIS, *Assistant*CLARIS RITTER, *Student Assistant*RUTH HOOVER, *Student Assistant*

**7a-7b. Practise.**—Class work; light gymnastics; gymnastic dancing; games; personal hygiene; corrective work. (Required of freshmen). *I, II; (2).*

Miss BROOKS, Miss HUGHITT, Miss BARTO, Miss NOBLE, Miss MORRIS, Miss RITTER

**8a-8b. Practise.**—(Continuation of 7a-7b. Required of sophomores). *I, II; (2).*

Miss BROOKS, Miss MORRIS, Miss BARTO, Miss HUGHITT, Miss NOBLE

*Prerequisite:* Physical Education 7a-7b.

**10a-10b. The Teaching of Physical Education.**—(Third year). Theory and practise; practise teaching in the gymnasium and in public schools. Lectures and outside reading. *I, II; (2).*

Miss NOBLE

*Prerequisite:* One year of gymnasium and psychology, or education; registration in Physical Education 7 or 8.

**11a. Massage.**—Corrective gymnastics and anthropometry. *I; (1).*

Miss HUGHITT

*Prerequisite:* Sophomore standing.

**11b. Emergencies.**—Red Cross First Aid certificate given. *II; (1).*

Miss HUGHITT

*Prerequisite:* Sophomore standing.

**12a-12b. Classic and Interpretive Dancing.**—Dances and exercises in technic. *I, II.*

Miss BROOKS

*Prerequisite:* Physical Education 7a-7b.

**13a-13b. Interpretive and Natural Dancing.** *I, II.*

Miss HUGHITT

*Prerequisite:* Physical Education 7a-7b.

**14a-14b. Swimming.** *I, II.*

Miss HOOVER, Miss RITTER

**Summer Session Courses**

Miss FREER and Miss BUSSELL

**S1. Games.**—( $\frac{1}{2}$ ).

**S2. Gymnastics.**—( $\frac{1}{2}$ ).

**S3. Folk Dancing.**—( $\frac{1}{2}$ ).

**S4. Esthetic Dancing.**—(No credit).

**S5. Swimming.**—(No credit).



## PHYSICS

ALBERT PRUDEN CARMAN, D.Sc., *Professor and Head of the Department*  
 CHARLES TOBIAS KNIPP, Ph.D., *Professor of Experimental Electricity*  
 FLOYD ROWE WATSON, Ph.D., *Professor of Experimental Physics*  
 JAKOB KUNZ<sup>1</sup>, Ph.D., *Associate Professor of Mathematical Physics*  
 WILLIAM FREDERICK SCHULZ, Ph.D., *Assistant Professor*  
 ELMER HOWARD WILLIAMS, Ph.D., *Assistant Professor of Experimental Physics*  
 WILLIAM HENRY HYSLOP, Ph.D., *Instructor*  
 CHARLES FRANCIS HILL, A.M., *Assistant*  
 ROY ANDREW NELSON, M.S., *Assistant*  
 EDWIN COULTHARD FRITTS, M.S., *Assistant*  
 CLAUDE JEROME LAPP, A.M., *Assistant*  
 CLARENCE CARL SCHMIDT, A.B., *Assistant*  
 LLOYD BLINN HAM, A.M., *Assistant*  
 WILLIAM HOWARD SANDERS, A.B., *Assistant*  
 WILLIAM JACOB JENSEN, A.B., *Assistant*  
 WALTER BOATMAN WORSHAM, A.B., *Assistant*

**Major:** Twenty hours from courses offered in the department.

**Minors:** Twenty hours in mathematics, astronomy, chemistry, education, psychology and geology.

Physics 7a-7b and 8a-8b are recommended to students not specializing in mathematics, chemistry, or engineering. For undergraduate students taking advanced work or a major in physics, the following outline of work is suggested:

Freshman year: Trigonometry (Mathematics 4) and Chemistry. Sophomore year: Physics 1a-1b, 3a-3b, or Physics 7a-7b, 8a-8b. Junior year: Physics 15, 16 and 36, 17, 23, or 24. Senior year: Physics 4a-4b, 14a-14b, 20, 22, 25, 30, or 31.

## Introductory Courses for Undergraduates

**1a-1b. General Physics.**—Lectures with class-room demonstration; recitations; written exercises. (For sophomores in engineering, mathematics, physics, and chemistry.) *I*, (3); *II*, (2).

**1bx. General Physics.**—Same as Physics 1b except for an extra recitation each week. *II*, (3).

Professor CARMAN, Assistant Professor SCHULZ, Mr. NELSON, Mr. FRITTS, Mr. LAPP, Mr. SCHMIDT, Mr. HAM, Mr. SANDERS, Mr. JENSEN.

*Prerequisite:* Registration in Physics 3a-3b; freshman mathematics.

**3a-3b. Physical Measurements.**—Laboratory experiments; quizzes in connection with Physics 1a-1b. *I*, *II*; (2).

Assistant Professor SCHULZ, Mr. NELSON, Mr. FRITTS, Mr. LAPP, Mr. SCHMIDT, Mr. HAM, Mr. SANDERS, Mr. JENSEN.

*Prerequisite:* Physics 1a-1b or registration therein.

**7a-7b. General Physics.**—Lectures; class-room demonstrations; recitations. (For students in arts and science.) *I*, *II*; (2½).

Professor WATSON, Assistant Professor WILLIAMS, Mr. HILL

*Prerequisite:* Mathematics 4, or registration therein; registration in Physics 8a-8b. One year's university standing advised.

<sup>1</sup>On leave of absence.

**8a-8b. Introductory Laboratory Physics.**—Physical measurements. *I, II; (2½).*

Assistant Professor WILLIAMS, Mr. HILL

*Prerequisite:* Registration in Physics 7a-7b.

**9a-9b. General Physics.**—Lectures; class-room demonstrations; recitations. (For students in architecture.) *I, II; (2).*

Professor WATSON, Assistant Professor WILLIAMS, Mr. HILL

*Prerequisite:* Mathematics 4; registration in Physics 10a-10b.

**10a-10b. Introductory Laboratory Physics.**—Physical measurements. *I, II; (2).*

Assistant Professor WILLIAMS, Mr. HILL

*Prerequisite:* Registration in Physics 9a-9b.

### Intermediate Courses

**15. Electricity and Magnetism.**—For students in non-technical courses who wish a knowledge of electricity and magnetism beyond the course in general physics. Two recitations or lectures and one three-hour laboratory exercise weekly. *I; (3).*

Professor KNIPP, Dr. HYSLOP

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**16. Heat.**—Heat phenomena; mechanical theory of heat; thermodynamics. Laboratory experiments in thermometry, calorimetry, vapor pressure, expansion of bodies, transmission of heat, and mechanical equivalent, and method of measurement of high temperatures. *II; (3).*

Professor WATSON

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**17. Light.**—Reflection, refraction, interference, diffraction, and polarization; optical instruments; lectures and laboratory. (For students in general physics, but also adapted to those who wish to learn the use of optical instruments.) *II; (3).*

Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b; 3a-3b; or 7a-7b.

**18. Teachers' Course.**—Text-books, reference books, laboratory manuals, apparatus ordering, and methods of conducting work. Manipulative work with glass and apparatus. Selected topics in advanced general physics. *II; (3).*

Professor WATSON

*Prerequisite:* A course in general physics, or experience in teaching.

**36. Heat Measurements.**—Laboratory experiments in thermometry, calorimetry, vapor pressure, expansion of bodies, transmission of heat, mechanical equivalent, and method of measurement of high temperatures. This course is designed to accompany Physics 16. *II; (1).*

Professor WATSON

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**37. Light Measurements.**—Laboratory experiments on the determination of constants of mirrors, lenses, prisms and gratings, their arrangement in optical instruments, and the use of refractometer, telescope, microscope, polarimeter, spectrometer and interferometer. This course is to be taken with or after Physics 17. *I or II; (1).*

Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**[40. Present Problems in Physics.**—The Electron theory of matter. *II; (2).* Not given in 1920-21.

Professor KUNZ

*Prerequisite:* Course in general physics and senior standing.]

[41. **Experiments on Present Problems in Physics.**—A series of experimental lectures illustrating some of the more recent discoveries in physics. *II*; (1). Not given in 1920-21.

Professor KUNZ

*Prerequisite:* Registration in Physics 40.]

### Courses for Undergraduates and Graduates

**44a-44b. Electrical and Magnetic Measurements.**—First semester: measuring very high and low resistances; aperiodic and ballistic; galvanometers; electric currents and quantity; capacities. Second semester: absolute determination of capacity; the damping factor of a ballistic galvanometer; circuits containing resistance and self-induction; measurement of self and mutual induction; magnetic properties of iron; plotting of curves; hysteresis losses. Potentiometers. *I*, (3); *II*, (2).

Professor KNIPP, Mr. HYSLOP, Mr. WORSHAM

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 7, 9.

**14a. Introduction to Theoretical Physics.**—Motion, mass, and force. (For the student of general science as well as for students of physics and mathematics.) Recitations; problems; lectures. *I*; (3).

Professor CARMAN

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 8 or 7 and 9.

**20. Light.**—Special phenomena; modern theories; readings in texts of Drude, Wood, and Preston. Lectures; recitations. *I*; (2).

Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 7 and 9, or 8.

**22. Advanced Light Measurements.**—Wavelength determinations with gratings, echelons, and interferometers, spectroscopy work, Zeeman effect, polarimetric analysis, resolving power of instruments, photometry and spectrophotometry. *I*; (2-5).<sup>1</sup>

Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**23. Sound.**—Origin, propagation, velocity, interference, and diffraction; vibrations of strings and organ pipes; music and speech. Lectures, recitations, laboratory. *I*; (3).

Professor WATSON

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**24. Properties of Matter.**—Gravitation, elasticity, capillarity, and other general properties of matter. Recitations; lectures. *II*; (2). Assistant Professor WILLIAMS

*Prerequisite:* Physics 1 and 3; or 7 and 8; Mathematics 7 and 9, or 8.

**27. Fundamental Physical Measurements.**—Measurements of length, mass, time, and of determinations of gravitation, elasticity, surface tension, viscosity. Laboratory. *II*; (1).

Assistant Professor WILLIAMS

*Prerequisite:* Course in general physics.

**30. Introduction to Theoretical Electricity.**—Electrical and magnetic phenomena discussed with calculus methods. Magnetism, electrostatics, electrolysis, thermoelectricity, electromagnetics, varying currents, alternating currents, units, electromagnetic radiation, conduction through gases, radioactivity, electrons. (For advanced students in physics, chemistry, mathematics, and engineering.) Lectures; recitations; demonstrations. *II*; (3).

Professor KNIPP

**31a-31b. Special Problems in Advanced Physical Measurements.**—*I*, *II*; (2 or 3).<sup>1</sup>

Professor CARMAN, Professor KNIPP, Professor WATSON, Assistant Professor SCHULZ, Dr. WILLIAMS.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which *he* intends to take the course.

## Courses for Graduates.

The prerequisite for graduate work in physics is a college course in general physics with a year's laboratory course in introductory physical measurements. The student who is to do major work in physics should also have had additional courses in physics or teaching experience, unless the training in his minor subjects, mathematics or chemistry, has been strong and complete. He should also have a knowledge of French and German sufficient to use references in these languages. The courses named below are those open for candidates for the Master's or Doctor's degree. A large part of the last year's work of the candidate for the Doctor's degree is investigational in either experimental or theoretical physics. In addition to these major graduate courses, the courses in elementary dynamics, heat, light, electrical measurements, and introductory electrical theory are arranged with certain additions for graduate credit. The "intermediate" courses on heat, light, and electricity and magnetism (Physics 15, 16, 17, 24) may be offered by students making a minor in physics, and with certain limitations by students in their first year of graduate work for major credit.

**104a-104b. Selected Problems in Electrical Measurements.**—First semester: very high and very low resistances; galvanometers; damping factor and critical damping resistance; electric current and quality; capacities; absolute determination of capacity; Dolezalek quadrant electrometer; dielectric constants; the measurement of  $v$  and  $e/m$  for cathode rays; positive electricity; potentiometer. Second semester: properties of iron, hysteresis curves and losses. Recommended for graduate students in chemistry. *I, II; ( $\frac{3}{4}$  unit).*  
Professor KNIPP

**[121. Recent Advances in Physics and the Electron Theory.**—Occurrence of electrons; properties; gaseousness; determination of  $e/m$  and  $v$  of the electron and of the ion; positive rays in gas analysis; color effects of electrons, of ions, and of retrograde rays in residual hydrogen, helium, neon, and argon; determination of the elementary charge of the electron by the fog method, by radioactivity. *II; ( $\frac{1}{4}$  unit.)* Not given in 1920-21.

Professor KNIPP

**123. Sound.**—Wave motion; forced vibrations; velocity and energy relations of sound waves; resonance; vibrations of strings and organ pipes. *Three times a week; I, II; ( $\frac{3}{4}$  or 1 unit).*  
Professor WATSON

**124. Conduction of Electricity Through Gases.**—Discharge phenomena. In the second semester an original problem is assigned. Laboratory, collateral reading; discussion. *Three times a week; I, II; (1 to 2 units).*  
Professor KNIPP

**126. Physics Colloquium.**—Weekly meetings of the instructors and advanced students of the department for the presentation and discussion of papers on current problems in physics. Attendance is expected of all graduate students. *Once a week; I, II; (no credit).*

**[127a. Problems of Present Theoretical Investigations in Physics.**—Fundamental laws of nature; least action; equipartition of energy; entropy and probability; laws of radiation; the energy quantum. *I, II; ( $\frac{1}{2}$  unit).* Not given in 1920-21.

Associate Professor KUNZ

**127b. Electron Theory.**—(Seminar). The Zeeman and corresponding phenomena; electro and magneto-optics; spectra; dispersion; photoelectricity; phosphorescence; chemical action of light and electrons; metals and magnetism; the atom. (Of special interest to students in chemistry and general science.) *Twice a week; II; (1 unit).*

**131. Investigation of Special Problems.**—Advanced laboratory or design and calculation. A problem worked out with the advice and direction of the instructor. *Two to four times a week; I, II; (1 to 2 units).*

Professor CARMAN, Professor KNIPP, Professor WATSON, Assistant Professor SCHULZ, Dr. WILLIAMS.

**[132. Mathematical Physics.**—Special phases of theoretical physics.

(a.) **Dynamics.**—Newton's equations, general methods of integration, potential theory, potential of the ellipsoid, celestial mechanics, least constraint, virtual work; D'Alembert's and Hamilton's principles; special problems of hydrodynamics and of electricity. *Three times a week; I, II; (1 unit).* Not given in 1920–21.

Associate Professor KUNZ

(b.) **Electrodynamics.**—The potential theory; electrical and magnetic polarization; spherical harmonics; images and inversion; conjugate functions; elliptic coordinates and integrals; magnetic actions of currents; coefficients of capacity; self and mutual induction; absolute measurements; Maxwell's theory; optics. Lectures; collateral reading. *Four times a week; I, II; (1 unit).* Not given in 1920–21].

**[132d. Electric Oscillations.**—Maxwell's theory of the electromagnetic field. Electric oscillations along single and parallel wires; Hertz's oscillator; theory of the antennal propagation of waves over the surface of the earth; absorption; reflection; diffraction and scattering of electric and light waves. From the mathematical point of view, this course is in application of the potential theory involving spherical and cylindrical harmonics. *I; (¾ unit).* Not given in 1920–21.

Associate Professor KUNZ]

**132e. Thermodynamics.**—Two periods weekly, second semester. *(1 unit).*

Professor GOODENOUGH

**133. Seminar.**—*Three or five times a week; I, II; (1 to 3 units).*

Professors CARMAN, KNIPP, WATSON, Associate Professor KUNZ, Assistant Professor SCHULZ

### Summer Session Courses

Assistant Professor WILLIAMS, Mr. FAZEL, Mr. HILL, Mr. LAPP, Mr. COLMEY

**S7I. General Physics, Part I.**—Lectures with experimental demonstrations and recitations on mechanics, including the fundamental laws of motion, forces and their effects, equilibrium, etc. (For students in Arts and Sciences). *(1½).*

Assistant Professor WILLIAMS, Mr. COLMEY

**Prerequisite:** Plane geometry and high-school algebra; registration in Physics S8I. Plane trigonometry desired.

**Equivalent:** S7 (I, II, III) together with S8 (I, II, III) are equivalent to Physics 7a-7b, 8a-8b, or to Physics 9a-9b, 10a-10b for the college year.

**S8I. Introductory Laboratory Physics, Part I.**—Physical measurements on mechanics, properties of matter forces, equilibrium, etc., to accompany S7I. *(1½).*

Mr. HILL, Mr. COLMEY

**Prerequisite:** Registration in Physics S7I.

**Equivalent:** See S7I.

**S7II. General Physics, Part II.**—Experimental lectures with recitations on electricity and magnetism. *(1½).*

Mr. FAZEL

**Prerequisite:** See S7I.

**Equivalent:** See S7I.

**S8II. Introductory Laboratory Physics, Part II.**—Laboratory experiments in electricity and magnetism to accompany S7II. (1½). Mr. COLMEY

*Prerequisite:* Registration in S7II.

*Equivalent:* See S7I.

**S7III. General Physics, Part III.**—Heat, light, and sound. (1½). Mr. HILL

*Prerequisite:* Same as S7I.

*Equivalent:* See S7I.

**S8III. Introductory Laboratory Physics, Part III.**—Laboratory experiments in heat, light, and sound to accompany S7III. (1½). Mr. HILL

*Prerequisite:* Registration in Physics S7III.

*Equivalent:* See S7I.

**S4a. Electrical and Magnetic Measurements.**—Accurate measurement of resistance by commutating Wheatstone bridge, the Carey Foster bridge and the Kelvin double bridge; insulation resistance; aperiodic and ballistic galvanometers; electric current and quantity; electric capacity. Discussions, recitations, and reports. Four 3-hour laboratory periods. (2). Mr. FAZEL

*Prerequisite:* A course in general physics and calculus.

*Equivalent:* First semester of Physics 4a.

**S15. Electricity and Magnetism.**—Lectures, recitations, and laboratory. Recommended to students who wish a broader and more accurate knowledge of electrical phenomena and theory than that given in the courses on general physics. (1½). Mr. LAPP

*Prerequisite:* A course in general physics.

*Equivalent:* Physics 15 (in part).

**S16. Heat.**—Lectures and recitations on fundamental heat phenomena accompanied by laboratory experiments in thermometry, calorimetry, transmission of heat, mechanical equivalent of heat, expansion, vapor pressure, etc. This is an intermediate course recommended to students who have already had a course in general physics and desire a more extended knowledge of heat. (1½). Mr. LAPP

*Prerequisite:* A course in general physics.

*Equivalent:* Physics 16 (in part).

**S18. Teacher's Course.**—Practical laboratory manipulation, such as glass blowing, minor repairs of apparatus, preparation of direction sheets, etc. (½). Mr. LAPP

*Prerequisite:* A course in general physics, or teaching experience.

*Equivalent:* Physics 18 (in part).

**S21. Recent Advances and Applications in Physics.**—Popular lectures, illustrated by experiments, on recent advances and applications of physics. These lectures are open to the public and may be attended by those interested. They are to be given by members of the instructional staff and others. One half hour credit may be obtained by students registering in the course. Brief abstracts of the lectures in addition to an examination of the main facts presented will be required. (½). Assistant Professor WILLIAMS in charge

**S26. Physics Teachers' Colloquium.**—A discussion in colloquium of the problems which the teacher of physics in the high school encounters, including methods of class conduction; criticisms of high school text books of physics; organization of laboratory work; selection of experiments and accompanying apparatus, etc. Part of the work will be in the shape of short papers by members of the colloquium on assigned topics. (½).

Assistant Professor WILLIAMS and others

*Prerequisite:* Enrolment in one of the physics courses.

### Courses for Advanced Undergraduates and Graduates

**S31. Special Problems in Advanced Physical Measurements.**—Special laboratory problems such as the accurate determination of the coefficient of viscosity of liquids and gases; of the elastic constants of metals; of the coefficient of self-induction,  $L$ , of a coil; of the capacity,  $C$ , of a condenser in absolute measure; the calibration of a bridge wire; the use of a dividing engine, etc. (1,  $1\frac{1}{2}$ , 2). Assistant Professor WILLIAMS

*Prerequisite:* A course in general physics, elementary calculus.

### Courses for Graduates

**S131. Investigation of Special Problems.**—This course is available for students who are working toward or who have taken their advanced degrees, and consists of individual special problems which will be under the general supervision of one of the professors. The work done should show originality in method, or should contribute new data in experimental investigation. (1,  $1\frac{1}{2}$ , or 2). Assistant Professor WILLIAMS

### PHYSIOLOGY

WILLIAM EDWARD BURGE, Ph.D., *Associate Professor*

JANE MARIE LEICHSENRING, B.S., *Assistant*

FORREST DRAPER MCCREA, B.S., *Assistant*

**Major:** Twenty hours made up of any courses offered in the department exclusive of Physiology 10 and 10a.

**Minors:** Twenty hours in bacteriology, botany, chemistry, and zoology.

### Courses for Undergraduates

**10. General Mammalian Physiology.**—The functions of the respiratory, secretory, excretory, nervous, muscular, and digestive systems, and glands of internal secretion. *I*; (3). Associate Professor BURGE, Miss LEICHSENRING, Mr. MCCREA

*Prerequisite:* Thirty hours of university work or two units of high-school science including 1 unit of biology.

**10a. Physiological Anatomy.**—The organs of a mammal with special reference to function. *I*; (2). Associate Professor BURGE, Miss LEICHSENRING, Mr. MCCREA

*Prerequisite:* Registration in Physiology 10.

**11. Physiology of the Glands of Internal Secretion.**—The functions of the thyroids, parathyroids, adrenals, pancreas, pituitary body, and thymus. *II*; (2).

Associate Professor BURGE, Mr. MCCREA

*Prerequisite:* Physiology 10 and 10a.

**4. Physiology of Secretion, Digestion, Absorption, Metabolism and Excretion.**—(Recommended especially for Home Economics students.) *I* or *II*; (5).

Associate Professor BURGE, Miss LEICHSENRING, Mr. MCCREA

*Prerequisite:* One year of university work, including 5 hours in botany, or zoology, and 5 hours in chemistry.

**6. Physiology of the Nervous System.**—The function of the principal motor and sensory tracts of the mammal. *I*; (3).

Associate Professor BURGE, Miss LEICHSENRING, Mr. MCCREA

**3. Physiology of Respiration, Circulation, Muscle, and Nerve.** *II*; (3).

Associate Professor BURGE, Miss LEICHSENRING, Mr. MCCREA

*Prerequisite:* Physiology 10 and 10a.

### Courses for Advanced Undergraduates and Graduates

**5. Physiology of Nutrition.** Utilization of food material by the body under various conditions in health and in disease. *II; (2).* Associate Professor BURGE

*Prerequisite:* Junior standing; Physiology 4 or equivalent.

**9. Physiology of the Special Senses.**—The normal function of the eye, optical defects; hearing, touch, pain, temperature, smell, and taste. *II; (2).*

Associate Professor BURGE, Mr. MCCREA

*Prerequisite:* Junior standing. Physiology 6 or equivalent.

### Courses for Graduates

**100. The Physiology of Secretion and Digestion.**—Absorption, metabolism, excretion, and glands of internal secretion. *Five times a week; I or II; (1 to 2 units).*

Associate Professor BURGE

**101.—Journal Club.**—*Once a week; I, II; (¼ unit).*

Members of the staff

**102. Research.**—*Three times a week; I, II; (1 to 2 units).*

Members of the staff

### POLITICAL SCIENCE

(See also ECONOMICS, HISTORY, and SOCIOLOGY.)

JAMES WILFORD GARNER,<sup>1</sup> Ph.D., *Professor*

JOHN ARCHIBALD FAIRLIE, Ph.D., *Professor*

JOHN MABRY MATHEWS, Ph.D., *Associate Professor*

RUSSELL MCCULLOCH STORY, Ph.D., *Associate Professor*

CLARENCE ARTHUR BERDAHL, Ph.D., *Instructor*

HOWARD WHITE, A.M., *Assistant*

*Cooperating:*

PITTMAN BENJAMIN POTTER, Ph.D., *Associate (Summer Session)*

**Major:** Twenty hours from any courses offered by the department. A major may include three hours of constitutional history (History 4 and 14).

**Minors:** Twenty hours, selected from two of the following subjects: history, economics, law, sociology, philosophy, and education.

### Courses for Undergraduates

**NOTE.**—Courses 1 and 3 give a survey of national, state, and local government in the United States, and should be taken by students specializing in political science.

**1. American National Government.**—Historical development, organization, powers, limitations, and practical working of the national government of the United States. *I; (3).*

Associate Professor MATHEWS, Associate Professor STORY

*Prerequisite:* Thirty hours of university work.

**3. State and Local Government.**—Powers, obligations, and rights of the states in the federal union; formation and admission of states; development of state constitutions; organization of state and local government; political methods. (A continuation of Political Science 1; may be taken independently). *II; (3).*

Associate Professor MATHEWS, Associate Professor STORY

*Prerequisite:* Thirty hours of university work.

**NOTE.**—Students may not take both 3 and 16 for more than a total of four hours' credit.

<sup>1</sup>On leave of absence.



**16. Government in Illinois.**—The commonwealth and the nation; constitutional development; organs of state government and their work; organization of the local governments and their functions; methods and agencies of popular control in public affairs; the constitutional convention of 1920. *II*; (2). Professor FAIRLIE

*Prerequisite:* Thirty hours of university work.

**NOTE.**—Students may not take both 3 and 16 for more than a total of four hours credit.

### Courses for Advanced Undergraduates and Graduates

**NOTE.**—Junior standing is required for admission to the following courses:

**4. Municipal Government.**—The growth of cities; their legal and social status; municipal organization in the United States, including mayor and council, commission, and city manager plans; municipal organization abroad; municipal functions. *I*; (3). Associate Professor STORY

**5. Constitutional Law of the United States.**—The judicial interpretation of the constitution. Judicial power to declare laws unconstitutional; separation of governmental powers; relation of state and national governments; national taxation; control of interstate commerce; protection of civil and political rights (due process of law); jurisdiction of the courts. *I*; (3). Associate Professor MATHEWS

*Prerequisite:* Political Science 1; junior standing.

**6. International Law.**—The development, nature, source, and present status of the law of nations; the doctrine of intervention; the laws of war and peace; the rights and duties of neutrals; the arbitration movement. Lectures; assigned readings; reports. *I*; (3). Dr. BERDAHL

*Prerequisite:* Graduate or senior standing, or junior standing with six hours of history and five hours of political science.

**7. American Diplomacy.**—The genesis and present organization of the Department of State; the diplomatic service; the treaty making power; the methods and traditional principles of the foreign policy of the United States; diplomatic controversies with foreign powers; the United States as a world power. *II*; (2). Associate Professor MATHEWS

*Prerequisite:* Political Science 1 or History 3a-3b; junior standing.

**9. Principles of Jurisprudence.**—The nature and sources of law; development and comparison of the Roman and English legal systems; English law in the United States; classification of law. *I*; (2). Professor FAIRLIE

*Prerequisite:* Political Science 1 or its equivalent; junior standing.

**11. Constitutional Aspects of Social and Industrial Problems.**—The nature of the police power; legislation concerning public health, order, and safety; constitutionality of labor legislation; control of combinations of capital; regulation of public service companies. *II*; (3). Associate Professor MATHEWS

*Prerequisite:* Six hours of political science or economics; junior standing.

**12. National Administration in the United States.**—Administrative powers of the President and Congress; administrative organization; the President's cabinet, the executive departments, boards and commissions, and administrative services of the national government (including war agencies); judicial administration and the relation of the courts to the executive authorities. *II*; (3). Professor FAIRLIE

*Prerequisite:* Political Science 1; junior standing.

**13. State Administration in the United States.**—Organization and methods of the

executive departments of the state governments; the governor, heads of administrative departments, boards and commissions, and the civil service. Centralization in taxation, education, and the enforcement of state law. *I*; (2). Associate Professor MATHEWS

*Prerequisite:* Political Science 3 or its equivalent; junior standing.

**14. Political Parties and Methods.**—Political parties and political methods, primarily in the United States; recent legislation on primary elections and corrupt practices; the party system. *II*; (2). Dr. BERDAHL

*Prerequisite:* One course in political science; junior standing.

**18. Legislation in the United States.**—Nature of the legislative power, constitutional limitations; organization, rules of procedure and practice of American legislative bodies; bill drafting; reference bureaus; criticism of bills and discussion of principles of legislation. *II*; (3). Associate Professor STORY

*Prerequisite:* Six hours of political science; junior standing.

**22. European Governments.**—The political systems of Great Britain, France, Germany, Italy, and Switzerland; constitutional beginnings; political organization; methods of legislation and administration; constitutional guaranties for the protection of individual rights. *I*; (3). Professor FAIRLIE

*Prerequisite:* Open to graduate students, seniors and juniors, who have had six hours in political science. History 20a-20b and Political Science 21 recommended.

**34. Municipal Problems.**—Municipal administration in the United States and Europe; organization; city planning and housing; public utilities; police and sanitary administration; municipal finances. Lectures; readings; special reports. *II*; (3).

Professor FAIRLIE

*Prerequisite:* Open to graduate students, and to undergraduate students who have had Political Science 4, or Economics 1, or who have senior standing in the curriculum in municipal or highway engineering.

**36a-36b. Thesis Course.**—Research work for candidates for honors and other seniors. *I, II*; (2). *Time to be arranged.*

### Courses for Graduates

**[101. History of Political Theories.**—Ancient, medieval, and modern political thought; political theories of Aristotle, Plato, Machiavelli, Hobbes, Locke, Montesquieu, and others. American political philosophy. *Twice a week; I; (1 unit).* Not given in 1920-21].

**102. The Nature of the State.**—Principles, methods, and nature of political science; origin, attributes, forms, and functions of the state; sovereignty and liberty; citizenship and nationality; constitutions, their nature and forms; legislative, executive, and judicial organization. Alternates with course 101. *Twice a week; I; (1 unit).*

Professor FAIRLIE

**103. Seminar in Political Science and Public Law.**—Special problems; reports; discussions and criticism. The research work of candidates who are writing theses is under the direction of some instructor to whom they report frequently. *Once a week; I, II.* *Time to be arranged.* Members of the department

**107. Foreign Relations of the United States.**—Studies in the principles and practices of American foreign policy. *Twice a week; II; (1 unit).* Associate Professor MATHEWS

**[112. Public Administration.**—Comparative studies in national and local administration. Not given in 1920-21. *Twice a week; I; (1 unit).* Professor FAIRLIE]

[113. **State Government and Administration.**—Studies in the organization and methods of state governments in formulating and executing public policies; investigation of problems. Different topics in succeeding years. *Twice a week; II; (1 unit)*. Not given in 1920–21. Associate Professor MATHEWS]

### Summer Session Courses

**S1. American National Government.**—(2½). Associate Professor MATHEWS

*Prerequisite:* Thirty hours of university work.

*Equivalent:* Political Science I (in part).

**S16. Government of Illinois.**—(2½). Associate Professor MATHEWS

*Prerequisite:* Thirty hours of university work.

*Equivalent:* Political Science 16, plus half-hour.

**S22. Comparative European Government.**—(2½). Dr. POTTER

### PSYCHOLOGY

MADISON BENTLEY, Ph.D., *Professor*

CHRISTIAN ALBAN RUCKMICK,<sup>1</sup> Ph.D., *Associate Professor*

CARL RAHN, Ph.D., *Associate*

COLEMAN ROBERTS GRIFFITH, Ph.D., *Instructor*

ELIZABETH J RUTHERFORD, A.B., *Assistant*

HARRIET MAYBELLE ANDERSON, A.B., *Assistant*

MILDRED SOWERS, *Student Assistant*

**Major:** Twenty hours chosen from courses announced by the department.

**Minors:** Twenty hours chosen from education, genetics, philosophy, physics, physiology, sociology, and zoology.

### Courses for Undergraduates

**1. Introduction to Psychology.**—The facts and laws of mind. Sensation and image, perception, attention, memory, emotion, action, and thought. Experimental methods and their results are illustrated in lecture by demonstrations. This course is preliminary to all other work of the department. Lectures; sectional meetings. *I; (4)*.

Professor BENTLEY, Associate Professor RUCKMICK, Dr. RAHN, Dr. GRIFFITH, and assistants.

*Prerequisite:* One year of university work.

**2. General Psychology.**—Mental inheritance, habit, custom, and fashion; the relations of psychology to the biological and social sciences; comparative and genetic psychology, and the psychology of the abnormal; applications of psychology to the arts and professions. *II; (4)*.

*Prerequisite:* Psychology 1.

**3. Laboratory Practise (Elementary).**—Classical experiments in the fields of sensation, feeling, attention, and action. A drill course in scientific method. *I or II; (2)*.

Associate Professor RUCKMICK, Dr. RAHN, Dr. GRIFFITH, and assistants

*Prerequisite:* Psychology 1.

**24. Psychology of Religion.**—An analytic study of the religious consciousness and of religious behavior. *II; (2)*. Dr. RAHN

*Prerequisite:* Psychology 1.

<sup>1</sup>On leave of absence, second semester.

## Courses for Advanced Undergraduates and Graduates

**5. Comparative Psychology.**—Mind in animal forms; the psychological implications of organic evolution; a comparison of human and animal minds; criticism of current literature. (Recommended to students who intend to elect advanced courses in either animal psychology or in the study of behavior.) Lectures; laboratory. *I*; (2). Dr. RAHN

*Prerequisite:* Psychology 1 and one other course.

**6. Comparative Psychology (Advanced Laboratory).**—Individual studies in animal psychology. *II*; (2-4).<sup>1</sup> Dr. RAHN

*Prerequisite:* Psychology 1 and 5.

**9. Physiological Psychology.**—Correlations between the structure and functions of the nervous system and the human mind; a formulation of the problem of psychophysical relationship. Lectures; readings; discussions. *II*; (3). Dr. RAHN

*Prerequisite:* Psychology 1 and 2, or 1 and 3, and laboratory training in one of the biological sciences.

**10. Translation of Psychological Treatises.**—Reading and systematic interpretation of standard works in foreign languages. *I*; (2). Professor BENTLEY

*Prerequisite:* Psychology 1, and consent of the instructor.

**12-13. Minor Problems (Advanced Laboratory).**—The application of methods suitable to new methods. *I, II*; (3).

Professor BENTLEY, Associate Professor RUCKMICK, Dr. RAHN

*Prerequisite:* Psychology 1, 2, 3, and consent of the instructor.

**14. Social Psychology.**—The social consciousness and the collective mind; analysis of the conditions upon which the social consciousness depends; perceptual, ideational, and emotional factors in the social consciousness; the genetic development of the collective mind as revealed in tradition and institutions. *I*; (3). Dr. RAHN

*Prerequisite:* Psychology 1 and one other course.

**15. The Psychological Basis of Music.**—Summary of experimental and theoretical literature on the origin of music, harmony, melody, rhythm, consonance, tonal quality; psychology of musical appreciation and performance; tests of musical aptitude. *II*; (2).

*Prerequisite:* Psychology 1 and one other course.

**16. Genetic Psychology.**—Instinctive responses, formation of habits, and development of mental functions in the child from birth to maturity, with special reference to problems of education. *I*; (2). Associate Professor RUCKMICK

*Prerequisite:* Psychology 1 and one other course.

**20. Systematic Psychology.**—Psychological analysis and construction. Lectures and essays. *II*; (3). Professor BENTLEY

*Prerequisite:* Consent of the instructor.

**21-22. Special Studies.**—Individual investigations, for advanced students, in the form of essay or of experiment. *I, II*; (3-5).<sup>1</sup>

Professor BENTLEY, Associate Professor RUCKMICK, Dr. RAHN

*Prerequisite:* Psychology 12 or 13.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e.g., not 2-5, but 2, or 3, or 4, or 5.

# Courses for Graduates

103. **Research.**—Experimental and historical investigations. *I, II; ( $\frac{1}{2}$  to 2 units).*  
 Professor BENTLEY, Associate Professor RUCKMICK, Dr. RAHN

105. **Seminar.**—Discussion of current topics in their historical setting. *Once a week; I, II; (1 unit).*  
 Professor BENTLEY

# Summer Session Courses

## Courses for Undergraduates

S1. **Introduction to Psychology.**—(2 $\frac{1}{2}$ ). Associate Professor RUCKMICK

*Prerequisite:* Consent of the instructor.

*Equivalent:* Psychology 1 (in part).

S2. **General Psychology.**—(2). Associate Professor RUCKMICK, Dr. GRIFFITH

*Prerequisite:* Psychology 1 or the equivalent.

*Equivalent:* Psychology 2 (in part).

## Courses for Advanced Undergraduates and Graduates

S13. **Minor Problems.**—Individual investigations in the form of essay or experiment. (1-2). Associate Professor RUCKMICK, Dr. GRIFFITH

*Prerequisite:* The equivalent of Psychology 1 and one other course, preferably training in elementary laboratory experiments.

*Equivalent:* Psychology 13, or in part.

S21. **Advanced Laboratory.**—(1-2). Associate Professor RUCKMICK, Dr. GRIFFITH

*Prerequisite:* Psychology 13 or the equivalent.

*Equivalent:* Psychology 21, or in part.

## PUBLIC SPEAKING

(See ENGLISH LANGUAGES AND LITERATURE.)

## RAILWAY ADMINISTRATION

(See TRANSPORTATION)

## RAILWAY ENGINEERING

JOHN McBEATH SNODGRASS, B.S., *Professor of Railway Mechanical Engineering, and Head of the Department*

EVERETT EDGAR KING, M.S., C.E., M.C.E., *Professor of Railway Civil Engineering*

....., *Professor of Railway Civil Engineering*

....., *Instructor in Railway Mechanical Engineering*

JOHN KLINE TUTHILL, B.S., *Research Associate in Engineering Experiment Station*

Railway Civil Engineering—Courses 31-51.

Railway Electrical Engineering—Courses 59-81.

Railway Mechanical Engineering—Courses 1-10.

Common to all groups—Courses 25, 98, and 99.

Graduate Courses—Courses 100-110.

**2. Locomotive Design.**—Calculations and designs of engine and boiler details; current standards and proportions. Drafting room systems. *I*; (3). Professor SNODGRASS

*Prerequisite:* Mechanical Engineering 13, 13b, 64; Railway Engineering 6.

**5. Railway Laboratory.**—Locomotive testing; experimental work with electric and steam railway test cars, brakeshoe testing machine, drop testing machine, and air-brake apparatus. *I*; (3). Professor SNODGRASS

*Prerequisite:* Railway Engineering 6; Mechanical Engineering 13, 13b, 64.

**6. Locomotives.**—Mechanics; performance; design. *II*; (4).

Professor SNODGRASS

*Prerequisite:* Theoretical and Applied Mechanics 25; registration in Mechanical Engineering 13b and 64.

**7. Advanced Design.**—Problems in locomotive and car design. *II*; (3).

Professor SNODGRASS

*Prerequisite:* Railway Engineering 2.

**8. Railway Laboratory.**—Investigation of train resistance and locomotive tractive effort by the use of the railway test car. Analysis of the results and their application to the problems of tonnage rating. *II*; (2). Professor SNODGRASS

*Prerequisite:* Railway Engineering 5.

**9. Seminar.**—Discussion of current topics and review of railway journals; assigned topics and reports. *I*; (1). Professor SNODGRASS

*Prerequisite:* Open to seniors in railway courses only.

**25. Railway Development.**—History and organization of steam and electric railways; statistics; costs. *I*; (3). Professor KING

*Prerequisite:* Open to juniors in railway courses only.

**31. Railway Yards and Terminals.**—Theory of design; arrangement of grades in gravity yards; problems. *I*; (3). Professor KING

*Prerequisite:* Civil Engineering 51.

**32. Railway Construction.**—Advanced course in design of railway structures; study of cost analysis; preparation of estimates of cost, complete working drawings, and contracts and specifications for assigned problems in design. *II*; (3). Professor KING

*Prerequisite:* Civil Engineering 51.

**33. Economic Theory of Railway Location.**—Influence of volume of traffic, alignment, and gradient on operating expenses; locomotive and grade problems; relocation of existing lines. *II*; (4). Professor KING

*Prerequisite:* Civil Engineering 51; Theoretical and Applied Mechanics 20, 21.

**35. Railway Signaling.**—Block and route signaling; systems in use; history; railway accidents. *I*; (1). Professor KING

*Prerequisite:* Civil Engineering 51.

**36. Railway Maintenance.**—Track materials; timber preservation; seasonal work; maintenance of way standards. *II*; (3). Professor KING

*Prerequisite:* Civil Engineering 51.

**37. Railway Maintenance.**—Stresses in track; track design. *I*; (2).

Professor KING

*Prerequisite:* Railway Engineering 36.

**51. Seminar.**—Current topics; review of railway journals; assigned topics and reports. *II*; (1). Professor KING

*Prerequisite:* Open to seniors in railway courses only.

**59. Electric Railway Principles.**—Mechanics of traction; train resistance; braking of electric railway trains; method of solving fundamental electric railway problems. *I*; (2). Mr. TUTHILL

*Prerequisite:* Registration in Theoretical and Applied Mechanics 25; Electrical Engineering 25, 75.

**60. Electric Railway Principles.**—(A continuation of Railway Engineering 59). Graphic time charts; single and double track service; cars, trucks; lighting; braking, heating. *II*; (2). Mr. TUTHILL

*Prerequisite:* Theoretical and Applied Mechanics 25; Electrical Engineering 25, 75.

**61. Electric Traction.**—Selection and operation of equipment. A condensed course for students in railway mechanical engineering or other engineering departments. *II*; (3).

*Prerequisite:* Theoretical and Applied Mechanics 21 or 25; Electrical Engineering 11, 61, or 25, 75.

**[62. Electric Railway Laboratory.**—Tests of electrical machinery used in railway service. *I*; (2). Not given in 1920-1921.

*Prerequisite:* Railway Engineering 59, 60.]

**63. Electric Railway Laboratory.**—(A continuation of Railway Engineering 62.) Tests with the electric test car and the steam dynamometer car to determine train resistance and power consumption. *II*; (2).

*Prerequisite:* Railway Engineering 62, 64.

**[64. Electric Railway Practise.**—Types of equipment; energy consumption; methods of distribution. *I*; (3). Not given in 1920-21.

*Prerequisite:* Theoretical and Applied Mechanics 25; Electrical Engineering 26, 76; Railway Engineering 60.]

**[67. Seminar.**—Current topics; review of railway journals; assigned topics and reports. *I*; (1). Not given 1920-21.

*Prerequisite:* Open to seniors in railway courses only.]

**71. Electric Railway Machinery.**—Theory and characteristics of electrical machinery used for railway service, of transmission and distribution lines. *I*; (2). Mr. TUTHILL

*Prerequisite:* Railway 60; Electrical Engineering 26, 76.

**74. Electric Railway Economics.**—Location and operation; choice of systems; location of power plant and sub-stations; calculation of transmission and distribution of circuits; maintenance of way and of equipment; electrification of steam roads. *II*; (3).

*Prerequisite:* Railway Engineering 64.

**93. Thesis.**—Independent solution of some railway problem or the investigation of some subject. The thesis may consist of an original design or of an original experimental investigation, or may be the analysis and discussion of facts already in existence. *II*; (3).

Professor KING, Professor SNOODGRASS

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

## Courses for Graduates

Entrance on graduate work in railway engineering presupposes the full undergraduate course in that subject.

**102. Locomotive Design.**—Modern practise concerning steam pressure, compounding, superheating. *Once a week; I, II; (1 unit).* Professor SNODGRASS

**106. Locomotive Operation.**—Train resistance and tractive effort; tonnage ratings. *Once a week; I, II; (1 unit).* Professor SNODGRASS

**108. Electric Railway Practise.**—The design, selection, operation, and maintenance of equipment; central station, substation, rolling stock, and line equipment. *Once a week; I, II; (1 unit).*

**110. Railway Location.**—The effect of location on earning capacity; problems in original location, in the relocation and reduction of grades of existing lines. *I, II; (1 unit).* Professor KING

## ROMANCE LANGUAGES AND LITERATURE

KENNETH MCKENZIE, Ph.D., *Professor and Head of the Department*

THOMAS EDWARD OLIVER, Ph.D., *Professor*

JOHN DRISCOLL FITZ-GERALD, Ph.D., Litt.D., *Professor of Spanish*

DAVID HOBART CARNAHAN, Ph.D., *Professor and Assistant Dean of Foreign Students*

JOHN VAN HORNE, Ph.D., *Assistant Professor*

ARTHUR HAMILTON, Ph.D., *Assistant Professor*

DAISY LUANA BLAISDELL, A.M., *Instructor and Social Director of Women's Residence Hall*

MARGARET ANDERSON, A.M., *Instructor*

RAFAEL ARCANGEL SOTO, A.M., *Assistant*

JANE COULSON WATSON, A.M., *Assistant*

ELISA CURTIS, A.B., *Assistant*

JULIETTE BOUIN, *Assistant*

MARIE LOUISE LÉAUTIER, B. és L., *Assistant*

SYLVIA MARIA VOLLMER, A.B., Ped.M., *Assistant*

CORDELIA REED, A.M., *Assistant*

RUTH LORENA LEWMAN, A.B., *Assistant*

ADELAIDE ELENA SMITHERS, A.B., *Assistant*

ANNETTE BARON, A.M., *Assistant*

RENE GUIET, A.B., *Assistant*

MYRTLE ROSALIE GIDINGHAGEN, A.M., *Assistant*

HELENE VIRGINIE BOUCHER, A.B., *Assistant*

ESTHER CAROLYN FEDDERSON, A.B., *Assistant*

DEFORREST D L WALTON,<sup>1</sup> A.B., *Assistant*

MARGARET EBERT FOLEY, A.B., *Assistant*

ALBERTINE WALTHER, Ph.B., *Assistant*

THOMAS AUSTIN FITZ-GERALD, Ped. B., A.B., *Assistant*

JOSEPH B BIANCHI, *Assistant*

*Cooperating in the Summer Session:*

RALPH EMERSON HOUSE, Ph.D., *Associate Professor in the University of Minnesota*

WILLIAM OLIVER FARNSWORTH, Ph.D., *Assistant Professor in Northwestern University*

CHARLES SERAPHIN CARRY, *Assistant*

MANUEL LEON LOPEZ, A.M., *Assistant*

<sup>1</sup>First semester.



# FRENCH

**Major:** Twenty hours of French, exclusive of French 1a, 1b, 2a, 6a, 6b, 6c.

**Minors:** Twenty hours in not more than two of the following subjects: comparative literature, English (excluding Rhetoric 1-2), German, Greek, history, Italian, Latin, Spanish; provided that at least 8 hours must be taken in any subject chosen.

# SPANISH

**Major:** Twenty hours of Spanish, exclusive of Spanish 1a, 1b.

**Minors:** Twenty hours in not more than two of the following subjects: comparative literature, English (excluding Rhetoric 1-2), French, German, Greek, history, Italian, Latin; provided that at least 8 hours must be taken in any chosen subject.

## ROMANCE LANGUAGES

**Major:** Twenty hours in some one Romance language, exclusive of French 1a, 1b, 2a, 6a, 6b, 6c; Spanish 1a, 1b.

**Minors:** Twenty hours in not more than two of the following subjects: comparative literature, English (excluding Rhetoric 1-2), French, German, Greek, history, Italian, Latin, Spanish; provided that at least 12 hours be taken in some one Romance language other than the language of the Major, and exclusive of French 1a, 6a, 6b, 6c; Italian 1a, Spanish 1a; and provided that not less than 8 hours must be taken in any subject chosen.

## A. FRENCH

### Courses for Undergraduates

**1a-1b. Elementary Course.**—Grammar; pronunciation; reading of modern authors; composition; conversation. *I, II; (4).*

Professor OLIVER, Mr. SOTO, Miss BOUIN, Miss LEAUTIER, Miss REED, Miss BARON, Miss FOLEY, Mr. GUIET, Miss BOUCHER, Miss PEDDERSEN, Mr. WALTON, Miss WALTHER.

*Prerequisite:* Not open to students who have had high-school work in this language.

**2a-2b. Modern Prose, Poetry, and Drama.**—Rapid reading of modern authors; syntax and composition. *I, II; (4).*

Professor CARNAHAN, Miss BLAISDELL, Miss ANDERSON, Miss BOUIN, Miss REED, Miss LEWMAN, Miss BARON, Mr. WALTON.

*Prerequisite:* French 1a-1b, or the equivalent.

**5a-5b. Introduction to French Literature.**—Authors of the last three centuries. Composition; review of the grammar. *I, II; (3).*

Professor OLIVER, Professor FITZ-GERALD, Miss ANDERSON

*Prerequisite:* French 2a-2b, or the equivalent.

**6a-6b. Second-Year Conversation.**—Three hours weekly of class-room exercise, without requirement of outside study. (Does not count toward a major in French or in Romance languages.) *I, II; (2).*

Miss BOUCHER, Mr. GUIET

*Prerequisite:* French 1a-1b (with a grade of at least B) or the equivalent.

**7a-7b. Intermediate Composition and Conversation.**—Conducted entirely in French, giving facility in idiomatic expression in writing and speaking. Reading; themes; talks on France and French life. *I, II; (2).*

Miss LEAUTIER, Miss BOUIN, Mr. GUIET, Miss BOUCHER

*Prerequisite:* French 2a-2b, or 6a-6b.

**NOTE.**—Required of those who are given the recommendation of the department to teach French.

**8a-8b. Advanced Composition and Conversation.**—French life and literature. Idiomatic construction; syntax; themes. Conducted entirely in French. *I, II; (2).*

Miss BARON

*Prerequisite:* French 7a-7b.

**25. The Teaching of French.**—Methods of teaching French; discussion of class-room problems. *I; (2).*

Professor CARNAHAN

*Prerequisite:* Twenty-two hours' credit in French or sixteen hours' credit in French plus twenty-two hours of Spanish.

**28a-28b. Senior Thesis.**—For candidates for honors in French; open to other seniors. *I, II; (1).*

Professor MCKENZIE and other members of the department.

#### Courses for Advanced Undergraduates and Graduates

*Prerequisite for the following courses:* French 5a-5b or the equivalent, and junior standing; or senior standing and the consent of the instructor.

**10a-10b. Survey of French Literature.**—Special periods and authors. The main currents of French literature from the beginning to the present time. *I, II; (3).*

Professor CARNAHAN

**24a-24b. Seventeenth and Eighteenth Century Drama.**—Corneille, Racine, Moliere, Voltaire, Marivaux, Sedaine, Beaumarchais. Lectures and interpretation. *I, II; (3).*

Professor OLIVER

**35a-35b. Sixteenth Century Literature.**—Literary movements and principal authors of the Renaissance period in France. *I, II; (2).*

Professor MCKENZIE

**42a-42b. The French Novel.**—From 1850 to the present time. Lectures, reports, and collateral reading. *I, II; (2).*

Assistant Professor HAMILTON

#### Courses for Graduates

Before entering upon the study of Romance languages as a major for the degree of A. M., the candidate must have had at least (a) three years of college work in one Romance language, and a reading knowledge, satisfactory to the department, of another Romance language; or (b) two years of college work in each of two Romance languages. In either case a reading knowledge of German is highly desirable. Before being accepted as a recognized candidate for the degree of Ph.D., he must have had in addition satisfactory training in Latin, and must be able to read ordinary German prose.

Before entering on the study of Romance languages as a first or second minor for an advanced degree, the candidate must have had at least two years of college work in the language desired.

**104. Eighteenth Century Prose Writers.**—Society, culture, and prose literature of the eighteenth century; attack on the classic ideals; the revolutionary spirit; first movements towards romanticism. *Twice a week; I, II; (1 unit).*

Professor OLIVER

**127. French Romanticism.**—Origin and development of the Romantic movement in France. *Twice a week; I, II; (1 unit).*

Professor CARNAHAN

#### B. ITALIAN

##### Courses for Undergraduates

**1a-1b. Elementary Course.**—Grammar; composition; conversation; reading. *I, II; (4).*

Assistant Professor VAN HORNE

**Course for Advanced Undergraduates and Graduates**

- 2a-2b. **Italian Literature.**—Reading; composition; conversation. Introduction to Dante. *I, II; (2).* Professor MCKENZIE  
*Prerequisite:* A reading knowledge of Italian.

**Courses for Graduates**

140. **Italian Literature of the Thirteenth and Fourteenth Centuries.**—Dante, Petrarch, Boccaccio. *Twice a week; I; (1 unit).* Professor MCKENZIE  
 146. **Modern Italian Literature.**—Italian writers of the nineteenth century. *Twice a week; II; (1 unit).* Professor MCKENZIE

**C. SPANISH**

**Courses for Undergraduates**

- 1a-1b. **Elementary Course.**—Grammar; pronunciation; reading; composition; conversation. *I, II; (4).*

Professor FITZ-GERALD, Assistant Professor VAN HORNE, Assistant Professor HAMILTON, Miss ANDERSON, Mr. SOTO, Miss WATSON, Miss CURTIS, Miss VOLLMER, Miss REED, Miss LEWMAN,<sup>1</sup> Miss SMITHERS, Miss GIDINGHAGEN, Miss PEDDERSEN, Mr. WALTON, Mr. T. A. FITZGERALD, Mr. BIANCHI.

- 2a-2b. **Modern Spanish.**—Rapid reading; review of grammar; conversation on topics of everyday life; composition. *I, II; (4).*

Professor FITZ-GERALD, Assistant Professor HAMILTON, Mr. SOTO, Miss WATSON, Miss CURTIS, Miss VOLLMER, Miss SMITHERS, Miss GIDINGHAGEN.

*Prerequisite:* Spanish 1a-1b, or an equivalent demonstrated by examination.

- 3a-3b. **Introduction to Spanish Literature.**—Reading of modern authors, and of authors of the seventeenth century. *I, II; (3).* Miss VOLLMER

*Prerequisite:* Spanish 2a-2b, or an equivalent demonstrated by examination.

- 7a-7b. **Intermediate Composition and Conversation.**—Conducted in Spanish. *I, II; (2).* Mr. SOTO

*Prerequisite:* Spanish 2a-2b.

25. **Course for Teachers.**—Methods of teaching Spanish; discussion of class-room problems. *II; (2).* Assistant Professor VAN HORNE

*Prerequisite:* Twenty-two hours' credit in Spanish, or sixteen hours credit in Spanish plus twenty-two in French.

**Courses for Advanced Undergraduates and Graduates**

*Prerequisite for the following courses:* Spanish 3a-3b, or the permission of the instructor.

- 11a-11b. **The Spanish Drama of the Sixteenth and Seventeenth Centuries.**—Earlier dramatists; representative plays of Lope de Vega, Calderón, Ruiz de Alarcón and Tirso de Molina. Reports on outside reading. *I, II; (2).* Assistant Professor VAN HORNE

- 42a-42b. **The Spanish Novel of the Nineteenth Century.**—Lectures, reports, and collateral reading. *I, II; (2).* Assistant Professor HAMILTON

**Courses for Graduates**

133. **Origin of the Spanish Novela and of the Comedia.**—Twice a week. *I, II; (1 unit).* Professor FITZ-GERALD

139. Spanish Literature in the Middle Ages.—*I, II; (1 unit); Twice a week.*

Professor FITZ-GERALD

#### D. ROMANCE PHILOLOGY

##### Courses for Graduates

175. Old French Phonology and Morphology.—Twice a week; *I, II; (1 unit).*

Professor OLIVER

185. Oldest Monuments of the Spanish Language.—Once a week; *I, II; (½ unit).*

Professor FITZ-GERALD

195. Seminar: Research Work, Including Work in Preparation for Thesis.—*I, II; (1 unit).*

Professor MCKENZIE and other members of the department

##### Summer Session Courses

##### FRENCH

- S1a. Elementary Course.—(4).

Professor FARNSWORTH, Mr. CARRY

*Equivalent:* French 1a or one year of high-school French.

- S2a. Modern Prose and Drama.—Rapid reading of modern authors; review of grammar.—(2).

Professor OLIVER

NOTE.—Students who have had French S2a in a previous summer session with different reading will be admitted to this course for full credit, but must do additional work outside the class.

*Prerequisite:* One year of college French or the consent of the instructor.

*Equivalent:* French 2a (in part).

- S7a. Intermediate Composition and Conversation.—(2).

Mr. CARRY

*Prerequisite:* Two years of French or the consent of the instructor.

*Equivalent:* French 7a.

- S9a. The French Novel from 1850 to the Present Day.—Flaubert; de Goncourt; Maupassant; Daudet; Bourget; France; Loti; Bordeaux. Lectures. Outside reading. Reports. (2).

Professor FARNSWORTH

*Prerequisite:* Two years of college French and the consent of the instructor.

- S25. Methods of Teaching French.—(1).

Professor OLIVER

##### Courses for Graduates

A cycle of four courses, dealing with French literature of the seventeenth, eighteenth, and nineteenth centuries, will be given in four successive summer sessions.

- S122. Seventeenth Century French Drama.—(1 unit).

Professor OLIVER

*Prerequisite:* Three years of college French and the consent of the instructor.

##### SPANISH

- S1a. Elementary Course.—(4).

Mr. LOPEZ

*Equivalent:* Spanish 1a, or one year of high-school Spanish.

- S2a. Modern Spanish.—Rapid reading; review of grammar; composition. (2).

Professor HOUSE

NOTE.—Students who have had Spanish S2a in a previous summer session with different reading will be admitted to this course for full credit, but must do additional work outside the class.

*Prerequisite:* One year of college Spanish or the consent of the instructor.

*Equivalent:* Spanish 2a (in part).

**S6a. Spanish Elementary Conversation.—(1).**

Mr. LOPEZ

*Prerequisite:* One year of college Spanish or the consent of the instructor.**Courses for Graduates**

A cycle of four courses, dealing with Spanish drama and prose of the seventeenth and nineteenth centuries, will be given in four successive summer sessions.

**S122. Seventeenth Century Spanish Drama (The Comedia of the Golden Age).—***(1 unit).*

Professor HOUSE

*Prerequisite:* Three years of college Spanish or the consent of the instructor.**SCANDINAVIAN**

(See ENGLISH LANGUAGES AND LITERATURE.)

**SOCIAL SCIENCES**

(See ECONOMICS, HISTORY, POLITICAL SCIENCE, and SOCIOLOGY.)

**SOCIOLOGY**EDWARD CARY HAYES, Ph.D., LL.D., *Professor*EDWIN HARDIN SUTHERLAND, Ph.D., *Assistant Professor*SAMUEL CALEB RATCLIFFE, A.M., *Instructor**Cooperating:*GORDON WATKINS, Ph.D., *Associate Professor of Economics*ELLERY F REED, A.M., *Assistant (Summer Session)***Major:** 20 hours from any courses offered in the department.**Minors:** 20 hours chosen from two or three of the following subjects: History, economics, political science, philosophy, and psychology.**Courses for Undergraduates**

1. **The Principles of Sociology and Their Application to Present Problems.—I or II;**  
(3). Professor HAYES, Assistant Professor SUTHERLAND, Mr. RATCLIFFE

*Prerequisite:* Junior standing. Sophomores who have had Economics 1 or 2 will be admitted to section G. No seniors received in that section.

7. **The Social Problems of the Rural Community.—II; (2).**

Professor HAYES, Assistant Professor SUTHERLAND

*Prerequisite:* Junior standing.**Courses for Advanced Undergraduates and Graduates**

3. **Social Evolution.**—Antiquity of man, racial divisions. Modes of social activity among savage, barbarous, and civilized people; family organization, practical arts, economic wants and institutions, origins of government and law, codes of morality, religions; induction from such facts, as to the theory of social evolution and the method of progress.  
II; (3). Professor HAYES

*Prerequisite:* Sociology 1.

8. **Charities.**—Evolution of modern organized philanthropy, public and private; causes and prevention of poverty; organization and management of charitable institutions.  
I; (3). Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1 or Economics 1; junior standing.

**9. Criminology.**—Nature, causes, and treatment of the criminal; evolution of modern methods of criminal procedure and penology; recent experiments and tendencies. *II*; (3).

Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1; open without other prerequisite to pre-legal students who have senior standing.

**10. Population.**—Theories and policies of population; Malthus' Principle and its critics; problems in the population of the United States; immigration, race-mixture, conditions affecting public health, death-rate, birth-rate, "race-suicide," marriage, divorce; selective influences at work on the "population type." *I*; (3).

Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1 or Economics 1; senior standing.

**12a-12b. Labor Problems.**—The same as Economics 12a-12b. *I, II*; (3).

Associate Professor WATKINS

*Prerequisite:* Senior standing, Economics 1, and three additional hours in economics for which Economics 1 is a prerequisite; or senior standing, and Economics 1, for students whose major subject is sociology.

**14. Statistics and Methods of Research.**—Methods of concrete investigation and research, principles of statistics and their application to the data furnished by official publications and special investigations; the statistical method applied to both theoretical and practical problems of sociology. *II*; (3).

Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1.

**25. Morality as a Factor in Social Evolution and Social Organization.**—A description of the contrasting moral codes of different social groups; a study of the degree to which the content of these codes is a product of the social evolution of the groups in which they prevail, and of the method of such evolution, as well as of the criteria by which different codes may be judged, including their effects upon other elements in the group life. *II*; (3).

Professor HAYES

*Prerequisite:* Sociology 1; senior standing.

### Courses for Graduates

Preparation for graduate work in sociology must include the equivalent of twelve semester hours in the social sciences, of which at least three must be in sociology, and three in the principles of economics. The remainder may be in any combination of these two subjects, or of history and political science.

**100. Bases of Social Theory.**—Systematic presentation and critical discussions. *Twice a week; I; (½ to 1 unit).*

Professor HAYES

**102. The Development of Sociology.**—Reading of sociological works; discussions; lectures. *Twice a week; I, II; (1 unit).*

Professor HAYES

### Summer Session Courses

#### Courses for Undergraduates

**S1. The Principles of Sociology and Their Application to Present Problems.**—(3).

Mr. REED

*Prerequisite:* Junior standing or equivalent.

*Equivalent:* Sociology 1.

**Courses for Advanced Undergraduates and Graduates**

**S9. Criminology.**—(3). Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1 or the consent of instructor.

*Equivalent:* Sociology 9.

**S10. Population.**—(3). Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1 or the consent of the instructor.

*Equivalent:* Sociology 10.

**TRANSPORTATION**

ORVAL BENNETT, A.M., *Instructor*

**Courses for Undergraduates**

**7. Railway Organization.**—The departments of the American railway organization and their functions. *I*; (2).

*Prerequisite:* Junior standing, or sophomore standing with Accountancy 1.

**8. Elements of Railway Working.**—An outline of the routine work and the problems of the railways; preliminary to the more advanced courses. *II*; (2).

*Prerequisite:* Transportation 7.

[35a-35b. **Thesis.**—Investigation of problems in railway administration. Preliminary outline must be filed with the department by the second Friday in October, extended outline and bibliography by the second Friday in November, and a first draft of at least fifteen different pages of the thesis by the second Friday in January. *I*, *II*; (2). Not given in 1920-21.

*Prerequisite:* Full senior standing in railway administration or railway transportation.]

**Courses for Advanced Undergraduates and Graduates.**

**1. Transportation System of the United States.**—Its development and its relation to the public. *I*; (3).

*Prerequisite:* Junior standing with credit in Economics 1 or 2.

**2. Transportation Policy in Europe and in the United States.**—The regulation of transportation, particularly the railways, in the United States and in Europe. *II*; (3).

*Prerequisite:* Transportation 1.

[12. **Freight Shipment.**—Conditions governing the shipment of freight by rail; routing of freight; freight claims; commission procedure. *II*; (2). Not given in 1920-21.

*Prerequisite:* Junior standing.]

[13. **Railway Traffic Administration.**—Freight and passenger traffic management. *I*; (3). Not given in 1920-21.

*Prerequisite:* Transportation 7 and 8, or with the permission of the instructor; Transportation 12 along with credit or concurrent registration in Transportation 1.]

[17. **Railway Terminal Management.**—Freight and passenger terminals. *I*; (3). Not given in 1920-21.

*Prerequisite:* Transportation 7 and 8.]

[22. **Railway Train Service.**—The standard code of train rules; train dispatching; block-signaling; time-table construction. (An inspection trip to Chicago of four days' duration forms part of this course, Monday to Thursday, inclusive, preceding the Easter recess; expenses about \$18.00). *I*; (3). Not given in 1920-21.

*Prerequisite:* Transportation 7 and 8.]

[26. The Economics of Railway Construction and Maintenance.—II; (3). Not given in 1920-21.

*Prerequisite:* Transportation 7 and 8.]

### Courses for Graduates

[101. Railway Rate Policy.—*Twice a week; I; (1 unit)*. Not given in 1920-21.]

[102. The Fiscal Administration of American Railways.—*Twice a week; II; (1 unit)*. Not given in 1920-21.]

[103. Foreign Railway Administration.—*Twice a week; I; (1 unit)*. Not given in 1920-21.]

[104b. Standards of Railway Operation.—The work of this course requires a cycle of three years for its completion, tho credit will be given for each semester's work. 104a deals with organization and maintenance of standards, 104c with passenger service. *Once a week, or, at the option of the instructor, twice a week; II; (1 unit)*. Not given in 1920-21.]

### Summer Session Course

### Course for Undergraduates

S1. Transportation System of the United States.—The development and economic problems of railway and other transportation in the United States. (3).

Assistant Professor WESTON

*Prerequisite:* Economics 1; junior standing.

*Equivalent:* Transportation 1.

### ZOOLOGY

HENRY BALDWIN WARD, Ph.D., D.Sc., *Professor*

JOHN STERLING KINGSLEY, D.Sc., *Professor*

FRANK SMITH, A.M., *Professor*

CHARLES ZELENY, Ph.D., *Professor*

VICTOR ERNEST SHELFORD, Ph.D., *Associate Professor*

HARLEY JONES VAN CLEAVE, Ph.D., *Assistant Professor*

ROKUSABURO KUDO, D.Ag.Sc., *Instructor*

GEORGE MARSH HIGGINS, Ph.D., *Instructor*

DAVID HIRAM THOMPSON, B.S., *Research Assistant*

ROY LEWIS MAYHEW, A.M., *Research Assistant*

FLORENCE HAGUE, A.M., *Assistant*

LYELL JAY THOMAS, B.S., *Assistant*

MYRON THOMAS TOWNSEND, B.S., *Assistant*

CLAUDE LEIST, A.B., *Assistant*

HARRY MILTON MILLER, JR., B.S., *Graduate Assistant*

**Major:** 20 hours from any courses offered in the department, excluding Zoology 1, and including Zoology 3, 4, and 5.

**Minors:** 20 hours chosen from two or three of the following subjects: animal husbandry (Animal Husbandry 30), bacteriology, botany, chemistry, entomology, physics, physiology, psychology, paleontology, and physiography.

Courses 1 and 2 constitute an introduction to later work in zoology. In the second year, a student may choose as a line of work either morphological, experimental, ecological, faunistic, or systematic courses. The courses on microscopical technic (3), heredity and evolution (5), and current investigations (20) are of value for all students. Medical



students should take courses 3 and 6 the second year. Those preparing to teach zoology in the high school should take invertebrate morphology (4), field zoology (16, 17), and ecology (9, 11), and a course in general entomology.

### Courses for Undergraduates

**1. General Zoology.**—Animal biology; principles of structure; function, interrelations, origin, and development of animal life; the simpler and best-established generalizations in zoological theory. Lectures; laboratory; quiz work. *I* or *II*; (5).

Professor WARD, Assistant Professors SHELFORD and Van CLEAVE, Dr. KUDO, Dr. HIGGINS, and Assistants.

**2. Vertebrate Zoology and Comparative Anatomy.**—Classification of the Chordata; early stages of vertebrate embryology; anatomy of systems of organs considered with regard to function, ontogeny, and evolution; dissection of types of vertebrata. Lectures; laboratory; quiz work. *II*; (5). Professor KINGSLEY, Dr. HIGGINS, and Assistants  
*Prerequisite:* Zoology 1.

**4. Invertebrate Morphology.**—Morphology of a series of invertebrates; invertebrate structure and development; the application of biological principles. Laboratory; lectures; demonstrations. *II*; (3). Assistant Professor VAN CLEAVE  
*Prerequisite:* Zoology 1.

**5. Heredity and Evolution.**—(a) The facts of heredity and present views regarding them. (b) The proofs of organic evolution with a discussion of the probable factors involved in the process. Lectures; demonstrations; assigned readings. *II*; (2). Professor ZELENY  
*Prerequisite:* One year of university work.

**3. Microscopical Technic and Vertebrate Embryology.**—Theory and practise of microscopical technic; fixation, staining, imbedding, section cutting and mounting material for use in the course; study of the early stages of vertebrate embryos. Lectures, laboratory, quizzes. *I*; (3). Professor KINGSLEY  
*Prerequisite:* Zoology 1, 2.

**6. Vertebrate Organogeny.**—Development of the organs of the vertebrate body; studies of the embryos of dogfish, chick, and pig. Lectures; assigned readings; laboratory work. (Continuation of Zoology 3). *II*; (3). Professor KINGSLEY  
*Prerequisite:* Zoology 1, 2, 3.

**9. Animal Ecology.**—The relations of animals to their natural environments. Field and experimental work; lectures on the natural history of mammals, birds, reptiles, and amphibians. *II*; (3). Associate Professor SHELFORD  
*Prerequisite:* One year of zoology or one and one-half years of university work, including Zoology 1.

**16. Economic Ornithology.**—Common birds of the vicinity. Identification; food relations; seasonal distribution; migration activities. Economic importance of birds and of their conservation. Lectures; assigned reading; two field trips per week during April and May in two two-hour periods as given in the schedule, or one four-hour trip on Saturday forenoon. *II*; (2). Professor SMITH and assistants

**17. Field Zoology.**—Collection, preservation, and identification of common representatives of the lower vertebrates and of the various groups of land and fresh-water inver.

tebrates (excluding insects) in the vicinity; identification work on living and preserved material from larger rivers and lakes; observations on the habits and life histories of selected forms. Field and laboratory work; assigned readings. *I*; (4).

Professor SMITH and assistant

*Prerequisite:* One year in zoology.

**18. Advanced Field Zoology.**—(A continuation of Zoology 17). Taxonomic or distributional problems in connection with the local fauna. *II*; (3 to 5).<sup>1</sup>

Professor SMITH

*Prerequisite:* Zoology 17.

**19a-19b. Advanced Ornithology.**—(Continuation of Zoology 16.) Systematic and field work; economic and technical literature. *I, II*; (1 or 3).<sup>1</sup> *Time to be arranged.*

Professor SMITH

*Prerequisite:* Zoology 16 or equivalent.

### Courses for Advanced Undergraduates and Graduates

**11. Experimental Ecology and Geography.**—The physiology of environmental relations; analysis of behavior. World and regional aspects of behavior and ecology; animal distribution as related to climate and vegetation. *I*; (2 or 4).<sup>1</sup>

Associate Professor SHELFORD

*Prerequisite:* One year of zoology and senior standing.

**63. Ontogeny of Vertebrates.**—Comparative studies of germ layers and early organogeny, with plastic and graphic reconstructions. Based chiefly upon Elasmobranchs and Amphibians. Lectures, assigned readings, and laboratory work. (Open to seniors and graduates.) *I*; (2 or 4).<sup>1</sup> *Time to be arranged.*

Professor KINGSLEY

**66. Ontogeny of Vertebrates.**—Studies of the development of selected systems of organs. Lectures, assigned readings, and laboratory work. Open to seniors and graduates. *II*; (2 or 4).<sup>1</sup> *Time to be arranged.*

Professor KINGSLEY

**22-23. Morphology of Vertebrates.**—Detailed studies of systems of organs from the comparative standpoint. Lectures; laboratory work; assigned readings. *I, II*; (2 to 4).<sup>1</sup> *Time to be arranged.*

Professor KINGSLEY

*Prerequisite:* Zoology 1, 2, 3, 6.

**21a-21b. Introduction to Zoological Research.**—Morphology, life history, or reciprocal relations of invertebrates, especially parasites of man and other animals. Laboratory; conferences; assigned reading. *I, II*; (2-5).<sup>1</sup>

Professor WARD

*Prerequisite:* One year in zoological courses, and senior standing.

**20a-20b. Current Investigation.**—A critical analysis of the results of recent zoological investigations. (Open to all students of zoology; should be taken by those intending to graduate with a thesis). *I, II*; (1).

Professor ZELNY

*Prerequisite:* Three years of university work, including one year in zoology.

**8a-8b. Thesis Investigation.**—Individual work on assigned topics. *I, II*; (5). *Time to be arranged.*

Members of the department

*Prerequisite:* Two years of zoology.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

## Courses for Graduates

Students entering on graduate study in the department of zoology should have had two years of undergraduate work in the subject. When chosen as a minor the courses listed for graduates and undergraduates must be preceded by at least one full year's undergraduate work in zoology. Work done at other institutions will be evaluated on conference with the head of the department.

**102. Vertebrate Morphology.**—The origin of vertebrates and of the different classes; the segmentation of the head, morphology of special systems. Lectures; required readings; discussions. *Twice a week; I; ( $\frac{1}{2}$  unit). Time to be arranged.* Professor KINGSLEY

**107. Parasitology.**—Structure and life history of animal parasites; the irrelations to disease; origin and biological significance of parasitism. Conferences; assigned reading; demonstrations. *Twice a week; I, II; (1 unit). Given 1920-21 and alternate years.* Professor WARD

**109-109a. Physiological Ecology.**—The regulatory mechanism of organisms; neutrality, osmotic pressure, immunity and temperature in relation to natural environments. 109, *twice a week*; 109a, assigned readings and reports. *II; ( $\frac{1}{2}$  unit each). Time to be arranged.* Given in 1920-21 and alternate years. Associate Professor SHELFORD

**[110-110a. Economic Ecology.**—Application of principles of physiology and ecology to problems of fisheries and pollution; quantity and weather; forestry and conservation. 110, *twice a week*; 110a, assigned reading and reports. *II; ( $\frac{1}{2}$  unit each). Time to be arranged.* Given in 1921-22 and alternate years. Associate Professor SHELFORD]

**111. Experimental Ecology.**—The repetition of published experiments in physiology and ecology, and study of modern methods and apparatus. *I, II; ( $\frac{1}{2}$  to 2 units). Time to be arranged.* Associate Professor SHELFORD

**115. Factors of Individual and Racial Development.**—Experimental embryology; regeneration; heredity; variation; evolution. *Twice a week; I, II; (1 unit). Time to be arranged.* Professor ZELENY

**117. Faunistic Zoology.**—Taxonomy and distribution with especial reference to the local fauna; laboratory and field work. *Three times a week. I; (1 unit); II, ( $\frac{1}{2}$  to 1 unit).* Professor SMITH

**[127. Theories of Animal Phylogeny.**—Relations of various groups of animals; significance of so-called intermediate forms; invertebrate larval forms and theories of descent based on them. *Once or twice a week; I, II; (1 unit). Given in 1921-22 and in alternate years.* Professor WARD]

## Individual Research Courses

**121. Invertebrate Morphology and Parasitology.**—Individual research course. *I, II; (1 to 2 units). Time to be arranged.* Professor WARD]

**122. Vertebrate Morphology.**—Individual research course.—*I, II; (1 to 2 units). Time to be arranged.* Professor KINGSLEY

**123. Faunistic and Systematic Zoology.**—Individual research course.—*I, II; (1 to 2 units). Time to be arranged.* Professor SMITH

**124. Experimental Zoology.**—Individual research course.—*I, II; (1 to 2 units). Time to be arranged.* Professor ZELENY

**125. Animal Ecology and Behavior.**—Individual research course. *I, II; (1-2 units). Time to be arranged.* Associate Professor SHELFORD

## Summer Session Courses

## Courses for Undergraduates

S1. General Zoology.—(5 or 4).

Assistant Professor VAN CLEAVE, Dr. HIGGINS, and Assistant

*Equivalent:* Zoology 1, if for 5 hours credit.

S2. Vertebrate Zoology and Comparative Anatomy.—(5).

Dr. HIGGINS and Assistant

*Prerequisite:* Zoology 1.

*Equivalent:* Zoology 2.

S27. Essentials of Laboratory Technic —Instructions in collection of zoological materials and their preparation for use, including preserving, sectioning, staining, and mounting.

Dr. HIGGINS

*Prerequisite:* An introductory course in biology.

## Course for Advanced Undergraduates and Graduates

S21. Introduction to Zoological Research.—(2 to 5).

Assistant Professor VAN CLEAVE

*Prerequisite:* Senior standing and one year in Zoology.

## Course for Graduates

S104. Morphology and Taxonomy of Invertebrates.—Individual problems dealing with the minute anatomy and classification of invertebrates exclusive of insects. ( $\frac{1}{2}$  to 1 unit).

Assistant Professor VAN CLEAVE

PART IV  
THE UNIVERSITY PRESS



# THE UNIVERSITY PRESS

---

DAVID KINLEY, Ph.D., LL.D., *President*

HARRISON EDWARD CUNNINGHAM, A.B., *Director of the University Press*

The University of Illinois Press was organized in 1918 to have charge of the work of editing, printing, and distributing the publications of the University.

The University of Illinois publishes, through its several departments and experiment stations, and the scientific bureaus located at the University,<sup>1</sup> the publications named below. A complete list of publications available for sale or free distribution (other than the Annual Register and the announcements of the colleges and schools) is issued by the University Library annually in July. Persons wishing to obtain any of the publications are requested to correspond with the department concerned or with the Director, 161 Administration Building. Libraries and institutions offering material of equivalent value may secure exchanges by corresponding with the University Librarian.

The list of series of publications is as follows:

## AGRICULTURE:

- The Bulletin of the Agricultural Experiment Station.
- The Circular of the Agricultural Experiment Station.
- The Soil Report of the Agricultural Experiment Station.

## ENGINEERING:

- The Bulletin of the Engineering Experiment Station.
- The Circular of the Engineering Experiment Station.
- The Ceramics Bulletin.

## SCIENTIFIC BUREAUS:

- The Report of the State Entomologist.
- The State Laboratory of Natural History Bulletin.
- The Natural History Survey of Illinois.
- The State Geological Survey Bulletin.
- The State Geological Survey Monographs.
- The State Water Survey Bulletin.
- The Illinois Coal Mining Investigations Bulletin.

## EDUCATION:

- The School of Education Bulletin.
- The Bulletins of the High-School Visitor's Office.
- The Bulletins of the Bureau of Educational Research.

## ENGLISH:

- The Illinois Association of Teachers of English Bulletin.

## LAW:

- The Law Bulletin.

---

<sup>1</sup>See pages 433 to 444.

## GRADUATE SCHOOL:

The Journal of English and Germanic Philology (quarterly, \$3.00 a year).

The University Studies (occasional).

The University of Illinois Studies in the Social Sciences (monographs, quarterly, \$3.00 a year).

The University of Illinois Studies in Language and Literature (monographs, quarterly, \$3.00 a year).

The Illinois Biological Monographs (quarterly, \$3.00 a year).

## WAR AND RECONSTRUCTION:

The War Bulletins and Circulars.

In addition to the serials enumerated above, the University has published a number of books, among which may be mentioned the following:

Alumni Record, 1913; 921 pages, \$2.50.

Alumni Record, 1918; 1,147 pages, 9 plates, \$2.00.

Directory of Matriculants, 1916; 35,000 names, 1,284 pages, \$5.00.

Konungs Skuggsjá, the main MSS. of, in phototypic reproduction, with diplomatic text, 1915; 67 plates, 191 pages, \$15.00.

The Genus *Phoradendron*, 1916; 224 pages, 245 plates, \$2.50.

Semi-Centennial History of the University of Illinois, volume I, by Burt E. Powell, 1918; 631 pages, illust., cloth, \$2.00 and \$2.25; morocco, \$2.50.

Sixteen Years at the University of Illinois, a statistical study of the administration of President Edmund J. James. 1920. 264 pages and 19 plates. \$2.50.

Life of Columcille, compiled by Marus O'Donnell in 1532. Edited and translated by A. O'Kelleher and G. Schoepperle. Irish Foundation Series, I; 1918; 516 pages, paper, \$3.50; cloth, \$5.00.

Municipal Documents and other Publications on Municipal Government in the University of Illinois Library, 1917; 49 pages, \$0.25.

List of Serials in the University of Illinois Library, together with those in other libraries in Urbana and Champaign, 1911; 233 pages, \$1.20.

State Documents for Libraries, 1915; 163 pages, \$0.75.

The life of the Pleistocene by F. C. Baker. 1920. 500 pages, 56 plates, \$5.00.

La Colección Cervantina de la Sociedad Hispánica de América (The Hispanic Society of America): Ediciones de Don Quijote. By Homero Seris, Ph.D.; 158 pages and 11 facsimiles, \$1.50.

The Power of a God, and other plays, by T. H. Guild, 1919. 151 pages, 5 plates, \$1.25.



PART V  
UNIVERSITY EXTENSION



# UNIVERSITY EXTENSION

---

Extension work has not been organized as a separate administrative unit in the University of Illinois. Several departments, however, have initiated activities, both on the campus and in the State at large, which serve to make some of the facilities of the University available to groups of mature persons who are engaged in various industries and professions.

## AGRICULTURE

Each of the departments of the College of Agriculture does extension work and so far as possible provides special men for this purpose. In addition to this, a separate service known as Agricultural College Extension offers courses in the principles and methods of extension work (see page 254), conducts the extension enterprises that do not deal with technical subjects, and cooperates with the other departments in projecting their work in the State.

Some of the more general College extension enterprises are:

(1) A two-weeks' course in agriculture, known as the Corn Growers' and Stockmen's Convention, held annually at the College of Agriculture since 1898. The work includes lectures, conferences, and demonstrations in the subjects of stock-judging, milk-testing, farm mechanics, and farm crops.

(2) Agricultural extension schools of a week's duration.

(3) Demonstrations held in connection with soil-fertility and crop fields throughout the State.

(4) Cooperation, by furnishing teachers and lecturers, with other educational agencies for rural communities, e.g., farmers' institutes, special lecture railway trains, the Boys' State Fair School.

(5) Educational exhibits at fairs and expositions.

(6) School and community excursions to the University.

For the Cooperative Extension Service in agriculture and home economics conducted by the University of Illinois and the United States Department of Agriculture, under the provisions of the Federal Smith-Lever Act of May 8, 1914, see pp. 426-430.

## CERAMIC ENGINEERING

In addition to the regular four-year technical curriculum, the department of ceramic engineering cooperates with the clay and allied industries by offering biannually, at Urbana, during the second semester, a two-weeks' industrial course in the principles underlying the manufacture of ceramic products, for those who have not the time nor the preparation required for academic studies. The work includes lectures, laboratory work, practise in firing kilns, and informal gatherings for question-asking. A common-school education is sufficient to enable one to do the work of this course. No charge of any kind is made. The number enrolled in January, 1915, was 47; in January, 1916, 25; in January, 1918, 27; not held in 1919; in March, 1920, 31.

## COOPERATIVE EXTENSION SERVICE

University of Illinois and United States Department of Agriculture Under the Smith-Lever Act

EUGENE DAVENPORT, M.Agr., LL.D., *Director of Agricultural Extension Service*

**Agriculture**

WALTER FREDERICK HANDSCHIN, B.S., *Vice-Director of Extension Service*  
 GEORGE NELSON COFFEY, Ph.D., *State Leader of County Farm Advisers*  
 JAMES DATER BILSBORROW, B.S., *Assistant State Leader of County Farm Advisers*  
 CHARLES AUSTIN ATWOOD, B.S., *Assistant State Leader of County Farm Advisers*  
 VERNE VANIMAN, B.S., *Assistant State Leader of County Farm Advisers*  
 JOHN CLYDE SPITLER, B.S., *Assistant State Leader of County Farm Advisers*  
 HARRIET MURIEL PHILLIPS, B.S., *Acting State Leader, Junior Extension*  
 HERBERT FREDERICK WOLTER, B.S., *Assistant State Leader, Junior Extension*

**Departmental Specialists***Agronomy*

FREDERICK CHARLES BAUER, Ph.D., *Associate Professor, Soils Extension*  
 JAY COURTLAND HACKLEMAN, B.S., A.M., *Associate Professor, Farm Crops Extension*

*Animal Husbandry*

WILLIAM HERSCHEL SMITH, M.S., *Associate Professor, Animal Husbandry Extension*

*Dairy Husbandry*

CHRIS SIMEON RHODE, B.S., *Associate, Dairy Husbandry Extension*

*Farm Organization and Management*

EMIL RAUCHENSTEIN, B.S., *Associate, Farm Organization and Management Extension*  
 FOSTER FLOYD ELLIOTT, M.S., *Assistant, Farm Organization and Management Extension*

*Horticulture*

WILLIAM SANFORD BROCK, B.S., *Assistant Professor, Horticulture Extension*

**County Farm Advisers**

	County
F A Gougler, M.S.	Adams
Charles Tarble, B.S.	Bond
J C Kline, B.S.	Boone
A E Davidson, B.S.	Brown
W W Wilson, B.S.	Bureau
G R Bliss, B.S.	Carroll
R W Dickenson, B.S.	Cass
C H Oathout, B.S.	Champaign
C E Hay, B.S.	Christian
E H Walworth, M.S.	Clark
C H Rehling, B.S.	Clinton
Melvin Thomas, B.S.	Coles
C E Durst, M.S.	Cook
C C Logan, B.S.	Crawford
T H Roberts, B.S.	DeKalb
E T Robbins, B.S.	DeWitt
F W Garrett, B.S.	Douglas
E B Heaton, B.S.	DuPage
W B Gernert, Ph.D.	Edgar
H R Pollock, B.S.	Edwards
H J Rucker, B.S.	Effingham

F C Hersman, B.S.	Ford
H A deWerff, B.S.	Franklin
J R Shinn, B.S.	Fulton
E M Phillips, B.S.	Greene
F E Longmire, M.S.	Grundy
J H Lloyd, B.S.	Hancock
J H Miner, B.S.	Henderson
J T Montgomery, B.S.	Henry
L W Wise, B.S.	Iroquois
C J Thomas, B.S.	Jackson
R L Eyman, B.S.	Jersey
C C Burns, B.S.	JoDavie
O M McGhee, B.S.	Johnson
W B Richards, B.S.	Kane
J S Collier, M.S.	Kankakee
Earl Price, B.S.	Kendall
E M D Bracker, B.S.	Knox
W E Watkins, B.S.	Lake
I S Brooks, B.S.	LaSalle
H C Wheeler, B.S.	Lawrence
L S Griffith, B.S.	Lee
H O Allison, M.S.	Livingston
E T Ebersol, M.S.	Logan
Sidney B Smith, B.S.	Macon
Alfred Raut, B.S.	Madison
F J Blackburn, B.S.	Marion
F E Fuller, B.S.	Marshall-Putnam
T R Isaacs, B.S.	Mason
R C Doneghue, M.S.	McDonough
A J Gafke, B.S.	McHenry
O D Center, M. S.	McLean
C A Hughes, B.S.	Menard
P S Richey, B.S.	Mercer
Alfred Tate, B.S.	Monroe
A E Snyder, B.S.	Montgomery
G B Kendall, B.S.	Morgan
A L Higgins, B.S.	Moultrie
G T Snyder, B.S.	Ogle
W E Hedgcock, B.S.	Peoria
J W Watson, B.S.	Piatt
Otis Kercher, B.S.	Pike
W R Eastman, B.S.	Pulaski
H B Piper, B.S.	Richland
P. R. Edgerton, B.S.	Rock Island
J E Whitchurch, B.S.	Saline
I A Madden, B.S.	Sangamon
G E Gentle, B.S.	Schuyler
C H Belting, B.S.	Shelby
B W Tillman, B.S.	St. Clair
E E Brown, M.S.	Stark
G F Baumeister, B.S.	Stevenson

C G Starr, B.S.....	Tazewell
J J Doerschuk, B.S.....	Union
Arthur Lumbrick, B.S.....	Vermilion
F A Fisher, B.S.....	Wabash
R R Wells, B.S.....	Warren
S J Craig, M.S.....	Whiteside
J F Hedgcock, B.S.....	Will
W E Hart, B.S.....	Williamson
M L Mosher, M.S.....	Woodford
C H Keltner, A.B.....	Winnebago

Under the provisions of the Smith-Lever Act, approved by the President of the United States on May 8, 1914, and the terms of its acceptance by the State of Illinois, the University becomes cooperatively responsible for a system of demonstration service designed to combine the results of scientific discovery with the most approved practice on the farms and in the households of the State.

The most important lines of work undertaken under this act are as follows:

- (1) Cooperation with county farm bureaus in the employment of agricultural advisers.
- (2) Cooperation with county home improvement associations in the employment of a woman adviser.
- (3) Employment of extension specialists in agriculture and home economics as special advisers in the field.

### HOME ECONOMICS EXTENSION

ISABEL BEVIER, Ph.M., *Vice-Director of Home Economics Extension*

JULIET LITA BANE, A.M., *State Leader in Home Economics Demonstration*

MABEL WILKERSON, Ph.B., *Assistant State Leader in Home Economics Demonstration*

FERNE HARRIS, A.B., *Assistant State Leader in Home Economics Demonstration*

### Departmental Specialists

#### *Food*

KATHRYN G VAN AKEN, A.B., *Food Specialist*

#### *Child Feeding*

MARY PACK, A.B., *Assistant*

#### *Health*

FANNIE MARIA BROOKS, A.B., R.N., *Assistant Professor*

#### *Clothing*

FAIRIE J MALLORY, Ph.B., *Clothing Specialist*

#### *Home Management*

MARJORIE SIMS, A.M., *Home Management Specialist.*

### County Advisers

Grace Taylor, B.S.....	Adams
Agnes Hitt, A.B.....	Champaign
No Adviser.....	Coles
Susan Wilder, M.S.....	Hancock
Myrtle Weldon, A.M.....	Kane

Edna Truman, B.S.....	Kankakee
Helen Glotfelter, B.S.....	LaSalle
Florence Swan, A.B.....	Livingston
Edna Danner, B.S.....	Logan
Lilla Harkins, M.S.....	Macon
Mary B Dalbey, (Mrs.), B.S.....	McHenry
Clara Brian, A.M.....	McLean
Mary E Gildersleeve, A.B.....	Mercer
Emma Wright, A.B.....	Saline
Caroline Rogers, A.B.....	Tazewell
No Adviser.....	Tri-City
No Adviser.....	Vermilion
Mary Hoover, B.S.....	Williamson

The service in home economics may be classified as follows:

1. *Correspondence*.—Correspondence forms one of the direct channels through which the latest scientific facts can be passed from the Department to the general public. The women of the state are availing themselves of this opportunity in ever increasing numbers so that this division of the work forms a very important part of the service which the University renders.

2. *Service for Organizations*.—Many organizations carrying on work relating to home economics have been given assistance by means of lectures, demonstrations, and study programs.

Through the following organizations 279,499 people were reached during the year.

Boys' and Girls' Clubs	Home Bureaus
Chamber of Commerce	Household Science Clubs
Child Welfare League	Library Associations
Church Settlements	Parent-Teachers' Associations
Civic Leagues	Parochial Schools
Colleges	Soil Improvement Association
Community Fairs	State Fair
County Fairs	Teachers' Institutes
Farmers' Institutes	Township High Schools
Granges	Woman's Clubs

3. *Movable Schools*.—The extension division of home economics in so far as possible provides instruction upon request for a movable school in any community which is sufficiently interested to pay the local expenses and the traveling and living expenses of a specialist from the extension staff for one week. In the counties which have a Home Bureau organization a similar service is given, where application is made through the Adviser, but without cost to the organization except for local expenses. During the year 1919-1920, 35 weeks of movable schools served 4,550 people.

4. *Press*.—The press of the State has been most helpful. The local papers in the 18 counties in which Home Bureaus have been established have been especially loyal in their cooperation. The activities of the Home Bureau have been given wide publicity through various farm journals.

Eight of the Home Bureau organizations print a monthly news sheet which is mailed to the members of the organization. The remaining ten send a mimeographed sheet to their members.

The Extension News, issued monthly by the Home Economics Extension Staff, is sent to the advisers and to the members of the executive boards in each Home Bureau organization.

5. *Home Bureaus.*—As a direct result of interest in home economics created by instruction from this department in former years and the intensive service made possible through the War Emergency fund, the Home Bureau has been established in 18 countries.

Through the various Home Bureau activities, the county advisers, assisted by the staff specialists, in 1919-1920, instructed 262,557 women and girls.

The Home Bureau cooperates with the Federal Department of Agriculture and the University of Illinois for the development of better living conditions. It provides a local fund of at least \$1,500 to equal the Federal Grant for financing the work in the county. The extension division of the home economics department acts in an advisory capacity as to the subject matter taught. The Executive Board of the Bureau elects its adviser from a group of candidates recommended by the appointments committee of the extension department and provides groups of members who will demonstrate in their homes the instruction given by the adviser. The Home Bureau thus forms the link by which the findings of the laboratory are made operative in the homes of the people.



PART VI  
EXPERIMENT STATIONS AND OTHER  
SCIENTIFIC BUREAUS



# THE AGRICULTURAL EXPERIMENT STATION

---

DAVID KINLEY, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY

## STAFF<sup>1</sup>

EUGENE DAVENPORT, M.Agr., LL.D., *Director*  
STEPHEN ALFRED FORBES, Ph.D., *Consulting Entomologist*  
ANNA CUSHMAN GLOVER, *Secretary*  
FLORENCE E SMITH, B.S., *Chief Editorial Assistant*

### *In Agronomy*

WILLIAM LEONIDAS BURLISON, Ph.D., *Chief, Crop Production, Head of the Department*  
LOUIE HENRIE SMITH, Ph.D., *Chief, Publications on Soil Survey*  
JEREMIAH GEORGE MOSIER,<sup>2</sup> B.S., *Chief, Soil Survey*  
ALBERT LEMUEL WHITING, Ph.D., *Chief, Soil Biology*  
ERNEST E DETURK, Ph.D., *Assistant Chief, Soil Technology*  
ORLAND I ELLIS, B.S., *Assistant Chief, Soil Survey*  
RAYMOND STRATTON SMITH, Ph.D., *Assistant Chief, Soil Physics*  
HOWARD JOHN SNIDER, B.S., *Assistant Chief, Soil Fertility*  
CLYDE MELVIN WOODWORTH, Ph.D., *Assistant Chief, Plant Breeding*  
THOMAS EVERETT RICHMOND, M.S., *Associate, Soil Biology*  
MICHAEL IVANOVITCH WOLKOFF, Ph.D., *Associate, Soil Fertility*  
GEORGE HARLAN DUNGAN, B.S., *Associate, Crop Production*  
JOHN PIEPER, M.S., *Associate, Crop Production*  
DAVID CLEVELAND WIMER, B.S., *Associate, Soil Physics*  
JOHN WOODARD, M.S., *Associate, Soil Survey*  
ROBERT W STARK, B.S., *First Assistant, Crop Production*  
CLYDE MAURICE LINSLEY, B.S., *First Assistant, Soil Fertility*  
WENDELL PHILLIPS HILTABRAND, B.S., *First Assistant, Soil Survey*  
ALVA HUGO KARRAKER, B.S., *First Assistant, Soil Fertility*  
VICTOR ELWIN SPENCER, B.S., *First Assistant, Soil Fertility*  
GEORGE VANDERVEEN, B.S., *First Assistant, Soil Fertility*  
HENRY GEORGE MARTIN JACOBSON, B.S., *Assistant, Soil Fertility*  
JOHN LAMB, Jr., B.S., *Assistant, Soil Fertility*  
CARROLL JOHN BADGER, B.S., *Assistant, Soil Fertility*  
SIDNEY SYLVESTER CARNEY, B.S., *Assistant, Crop Production*  
MARION BOYER HARLAND, B.S., *Assistant, Soil Physics*  
ETHAN ARLO NORTON, B.S., *Assistant, Soil Survey*  
ROYLE PRICE THOMAS, B.S., *Assistant, Soil Fertility*

### *In Animal Husbandry*

HERBERT WINDSOR MUMFORD,<sup>2</sup> B.S., *Chief, Animal Husbandry, Head of the Department*

---

<sup>1</sup>The Station Staff includes only those scientific workers who have been recommended by the President and appointed by the Board of Trustees.

<sup>2</sup>On leave of absence.

WALTER CASTELLA COFFEY, M.S., *Chief, Sheep Husbandry, Acting Head of the Department*

HARRY SANDS GRINDLEY, D.Sc., *Chief, Animal Nutrition*

JAMES LLOYD EDMONDS, B.S., *Chief, Horse Husbandry*

HENRY PERLY RUSK, M.S., *Chief, Cattle Husbandry*

JOHN A DITLEFSEN, D.Sc., *Chief, Genetics*

ROBERT GRAHAM, D.V.M., B.S. in Agr., *Chief, Animal Pathology*

HAROLD HANSON MITCHELL, Ph.D., *Associate Chief, Animal Nutrition*

ELMER ROBERTS, Ph.D., *Assistant Chief, Genetics*

ROSCOE RAYMOND SNAPP, B.S., *Assistant Chief, Cattle Husbandry*

SLEETER BULL, M.S., *Associate, Animal Nutrition*

JOHN BENJAMIN RICE, B.S., *Associate, Animal Husbandry*

WILLIAM GARFIELD KAMMLADE, M.S., *Associate, Animal Husbandry*

WORTH ARTHUR ALLISON, A.B., M.S., *Associate, Animal Husbandry*

IVAN BERTRAND BOUGHTON, D.V.M., *Associate, Animal Pathology*

HERMAN RICHARD SCHWARZE, D.V.S., M.D.C., *Associate, Animal Pathology*

MARY HELEN KEITH, B.S., A.M., *First Assistant, Animal Nutrition*

THOMAS SHERMAN HAMILTON, B.S., *First Assistant, Animal Nutrition*

NAO UYEI, B.S., *Assistant, Animal Nutrition*

#### *In Dairy Husbandry*

MARTIN JOHN PRUCHA, Ph.D., *Acting Head, Chief, Dairy Bacteriology*

HARRY ALEXIS HARDING, Ph.D., *Chief, Dairy Bacteriology*

WALTER LEE GAINES, Ph.D., *Chief, Milk Production*

HARRISON AUGUST RUEHE,<sup>1</sup> M.S., *Assistant Chief, Dairy Manufactures*

OLIVER RALPH OVERMAN, Ph.D., *Assistant Chief, Dairy Chemistry*

WILLIAM WODIN YAPP, M.S., *Assistant Chief, Dairy Husbandry*

MASON HERBERT CAMPBELL, M.S., *Associate, Dairy Husbandry*

ARTHUR SAMUEL AMBROSE, B.S., *Associate, Dairy Manufactures*

HARRY ALBERT ROSS, B.S., *Associate, Dairy Economics*

BENJAMIN ANDREW STIRITZ, B.S., *Instructor, Dairy Manufactures*

PAUL H TRACY, B.S., *Assistant, Dairy Manufactures*

#### *In Farm Organization and Management*

WALTER FREDERICK HANDSCHIN, B.S., *Chief, Farm Organization and Management, Head of the Department*

EMIL RAUCHENSTEIN, B.S., *Associate, Farm Organization and Management*

WALTER JOHN ROTH, B.S., *Instructor, Farm Organization and Management*

FOSTER FLOYD ELLIOTT, M.S., *Assistant, Farm Organization and Management*

CLARENCE ALFRED BONNEN, B.S., *Assistant, Farm Organization and Management*

LENA CECILIA RHUE, B.S., *Assistant, Farm Organization and Management*

#### *In Horticulture*

JOSEPH CULLEN BLAIR, M.S., D.Sc., *Chief, Horticulture, Head of the Department*

JOHN WILLIAM LLOYD, Ph.D., *Chief, Olericulture*

CHARLES SPENCER CRANDALL, M.S., *Chief, Plant Breeding*

HERMAN BERNARD DORNER, M.S., *Chief, Floriculture*

BETHEL STEWART PICKETT, M.S., *Chief, Pomology*

WARREN ALBERT RUTH, Ph.D., *Assistant Chief, Pomology*

HARRY WARREN ANDERSON, Ph.D., *Assistant Chief, Pomology*

<sup>1</sup>On leave of absence.

PHILLIP AUGUSTUS LEHENBAUER, *Assistant Chief, Plant Physiology*

ARTHUR SAMUEL COLBY, Ph.D., *Assistant Chief, Pomology*

EMIL CONRAD VOLZ, M.S., *Assistant Chief, Olericulture*

JAMES HUTCHINSON, *Associate, Floriculture*

STANLEY WILLIAM HALL, B.S., *Associate, Floriculture*

HARRY WARREN DAY,<sup>1</sup> B.S., *First Assistant, Olericulture*

ZENAS HARRY MOHLMAN, B.S., *First Assistant, Floriculture*

EMIL FREDERICK GUBA, B.S., *Assistant, Pomology*

By an act approved March 2, 1887, the national government appropriated \$15,000 a year to each state for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the *Agricultural Experiment Station of the University of Illinois* was founded in 1888 and placed under the direction of the Trustees of the University; a part of the University farm, with buildings, was assigned for its use.

The federal grant has since been increased to \$30,000 a year. This is supplemented by state appropriations which make an aggregate fund of nearly a quarter of a million dollars devoted wholly to research in agriculture.

Investigations are conducted in the growing and marketing of orchard fruits, the methods of production of meats and of dairy goods, the principles of animal breeding and of nutrition, and the improvement of the economic production of crops. All the principal types of soil of the State are being studied in the laboratory under glass and in the field. A soil survey is in progress which when finished will map and describe the soil of every farm of the State down to an area of ten acres. Between forty and fifty fields and orchards are operated in various portions of the State for the study of local problems, and assistants are constantly on the road to conduct experiments or to give instruction to producer or consumer. The results of investigation are published in bulletins, which are issued in editions of 40,000 and distributed free of charge.

Much of this work is of interest to students, especially of graduate grade, and it is freely available for this purpose, so far as is consistent with the interests of the Station.

# THE ENGINEERING EXPERIMENT STATION

DAVID KINLEY, Ph.D., LL.D., *President*

## EXECUTIVE STAFF

CHARLES RUSS RICHARDS, M.E., M.M.E., D.Eng., *Director*

MATTHEW RUTHERFORD RIDDELL, A.B., *Assistant to the Director*

SAMUEL WILSON PARR, M.S., *Professor of Applied Chemistry*

THE HEADS OF THE DEPARTMENTS OF THE COLLEGE OF ENGINEERING

## RESEARCH CORPS

HERBERT FISHER MOORE, M.M.E., *Research Professor of Engineering Materials*

JESSE BENJAMIN KOMMERS, B.S., *Special Research Associate Professor of Engineering Materials*

ALONZO PLUMSTED KRATZ, M.S., *Research Assistant Professor of Mechanical Engineering*

ELMER NEWMAN BUNTING, Ph.D., *Research Associate in Ceramic Engineering*

JOHN KLINE TUTHILL, B.S., *Research Associate in Railway Engineering*

FRANK ERWIN RICHART, M.S., *Research Associate in Theoretical and Applied Mechanics*

JAMES RUSSELL FLEMING, E.M., *Research Associate in Mining Engineering*

VINCENT STEPHEN DAY, B.S., *Special Research Associate in Mechanical Engineering*

JOHN WILL HARSCH, B.S., *Special Research Assistant in Engineering Materials*

GEORGE REED SHELTON, A.B., M.S., *Temporary Research Assistant in Ceramic Engineering*

BENJAMIN RACZKOWSKI HARRIS, B.S., *Research Graduate Assistant in Chemistry*

WILLIAM DAIL CANNON, B.S., *Research Graduate Assistant in Electrical Engineering*

GEORGE THEODORE FELBECK, B.S., *Research Graduate Assistant in Mechanical Engineering*

CRANDALL ZACHARIAH ROSECRANS, B.S., *Research Graduate Assistant in Mechanical Engineering*

REX LENOI BROWN, B.S., *Research Graduate Assistant in Theoretical and Applied Mechanics*

ERNEST EDWIN MICHAELS, B.S., *Research Graduate Assistant in Civil Engineering*

The Engineering Experiment Station of the University of Illinois is an organization within the College of Engineering. It was created by an act of the Board of Trustees on December 8, 1903, to stimulate and to elevate engineering education and to investigate problems of special importance to professional engineers and to the manufacturing, railway, mining and other industrial interests of the State and of the country. The knowledge thus obtained is made available through the publication of bulletins presenting the results of original research, and of circulars containing compilations of important information not otherwise readily accessible to the interests to be served.

The control of the Station is vested in an Executive Staff composed of the Director and his Assistant, the Heads of the several departments of the College of Engineering and the Professor of Industrial Chemistry. This staff is responsible for the establishment of general policies governing the work of the Station, including the approval of material presented for publication. While all members of the teaching staff of the College are encouraged to engage in scientific research, it is conducted chiefly by the Research Corps composed of full-time research assistants, research graduate assistants and special investigators. Those employed for special investigations are engaged for a limited time on a single problem.

The University of Illinois now maintains fourteen Research Graduate Assistantships in the Engineering Experiment Station. In addition, two Research Graduate Assistantships in Gas Engineering have been established under the patronage of the Illinois Gas Association. These Assistantships are open to graduates of approved American and foreign

universities and technical schools, who are prepared to undertake graduate study in engineering, physics, or applied chemistry. Each assistantship carries a stipend of five hundred dollars and freedom from tuition, incidental, and laboratory fees. Appointment to these positions must be accepted for two consecutive collegiate years, at the expiration of which period, if all requirements have been met, the degree of Master of Science will be conferred. Not more than half of the time of these assistants, during ten months of each year, is required in connection with the work of the department to which they are assigned; the remainder is available for graduate study.

Information concerning the opportunities for graduate study in engineering will be found in the circular of the Graduate School, which may be obtained upon request to the Dean of the Graduate School. Further details regarding appointment to the Research Graduate Assistantships will be supplied upon request by the Director of the Engineering Experiment Station.

The Station has already published 117 bulletins and eight circulars. All these publications are regarded as contributions to the literature of engineering, and many of them present important additions to the science of engineering. All publications are distributed free to those persons who are on the regular mailing list of the Station, and to others upon request. After the number of copies of a particular bulletin, however, has been reduced to an established limit, a small charge is made for each of those remaining for distribution. A charge is made for duplicate copies of a particular bulletin when these are requested by an individual, unless in special cases it is deemed advantageous to the Station to furnish such duplicates free. When ordered in large quantities, a special rate for bulletins may be made by the Director.

Upon request to the Director, the name of any person who desires to receive the publications of the Engineering Experiment Station, as they are issued, will be added to the regular mailing list. A complete list of the publications will be sent to anyone who may desire it.

*Cooperative Investigations.*—In addition to the research work conducted with the funds assigned to the Engineering Experiment Station by the University, a number of cooperative investigations have been undertaken with funds supplied by outside agencies which are chiefly interested in a particular investigation. In undertaking such investigations, the University reserves the right to control the results secured and to publish them for the information and benefit of the public. The funds for such cooperative investigations are paid to the University and are administered by it for the special purpose for which they are provided.

The following important cooperative investigations are now in progress:

1. An investigation of chilled iron car wheels in cooperation with the Association of Manufacturers of Chilled Car Wheels.
2. An investigation of stresses in railroad track in cooperation with the American Society of Civil Engineers and the American Railway Engineering Association.
3. An investigation of the coking of coal in cooperation with Mr. A. T. Hert of the American Creosoting Company, Louisville, Kentucky.
4. An investigation of problems in the mining of coal in cooperation with the United States Bureau of Mines and the State Geological Survey Division. (See statement concerning cooperative investigation of problems of Illinois mineral industries on page 444).
5. An investigation of warm air furnaces and furnace heating in cooperation with the National Warm Air Heating and Ventilating Association.
6. An investigation of the fatigue phenomena of metals in cooperation with the Engineering Foundation and the National Research Council.

BOARD OF NATURAL RESOURCES AND  
CONSERVATION  
OF THE  
DEPARTMENT OF REGISTRATION AND  
EDUCATION  
STATE OF ILLINOIS

---

Members

Ex-Officio—FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*

Ex-Officio—KENDRIC C BABCOCK, Ph.D., LL.D., *Dean, College of Liberal Arts and Sciences, Representing the President of the University of Illinois*

Chemistry—WILLIAM A NOYES, Ph.D., LL.D., *Professor of Chemistry, University of Illinois*

Engineering—JOHN W ALVORD, C.E., *Consulting Engineer, Chicago*

Geology—ROLLIN D SALISBURY, A.M., LL.D., *Professor of Geology, University of Chicago*

Forestry—JOHN M COULTER, Ph.D., *Professor of Botany, University of Chicago*

Biology—WILLIAM TRELEASE, Sc.D., LL.D., *Professor of Botany, University of Illinois*

Under an Act of the General Assembly entitled "The Civil Administrative Code" the functions and duties formerly exercised by the Scientific Bureaus located at the University of Illinois, were vested in the Department of Registration and Education with the proviso that they continue to be exercised at the University of Illinois.

The Board of Natural Resources and Conservation, acting through subcommittees composed of the Director of the Department of Registration and Education, the President of the University of Illinois, or his representative, and one or more expert advisers especially qualified, decides all matters pertaining to the Bureaus, including research, investigational, and scientific work, the selection and appointment of the members of the scientific staff, the cooperation with the University of Illinois in the use of scientific staff and equipment, and cooperation with allied Divisions and Departments. These Bureaus include the Divisions of Natural History Survey, State Water Survey, and State Geological Survey.



# STATE NATURAL HISTORY SURVEY

## COMMITTEE

FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*  
KENDRIC C BABCOCK, Ph.D., LL.D., *Dean, College of Liberal Arts and Sciences, University of Illinois*

WILLIAM TRELEASE, Sc.D., LL.D., *Professor of Botany, University of Illinois*

JOHN M COULTER, Ph.D., *Professor of Botany, University of Chicago*

## STAFF

STEPHEN ALFRED FORBES, Ph.D., LL.D., *Chief*

ROBERT EARL RICHARDSON, A.M., *Biologist in charge of Biological Station*

VICTOR ERNEST SHELFORD, Ph.D., *Biologist in charge of Research Laboratories*

ROBERT BARCLAY MILLER, M.F., *Forester*

WESLEY PILLSBURY FLINT, *Chief Field Entomologist*

STEWART C CHANDLER, B.S., *Field Entomologist*

FRANCIS MARION WADLEY, B.S., *Field Entomologist*

JOHN RUSSEL MALLOCH, B.S., *Illustrator and Custodian*

CHARLES PAUL ALEXANDER, Ph.D., *Systematic Entomologist*  
....., *Entomological Assistant*

MARY JANE SNYDER, *Secretary*

CHARLES EDWIN JANVRIN, B.L.S., *Librarian*

The Natural History Survey Division of the State Department of Registration and Education succeeded, in 1917, to the duties of the Illinois State Laboratory of Natural History and the State Entomologist's Office. It is its function to conduct a natural history survey of the state, giving preference to subjects of educational and economic importance; to publish reports covering the entire field of the zoology and botany of the state; to supply natural history specimens to the state educational institutions and the public schools; to investigate the entomology of the state, including all insects dangerous or injurious to agricultural or horticultural crops and plants, to live stock, to nursery trees and plants, to the products of the truck-farm and vegetable garden, to shade-trees and other ornamental vegetation of cities and villages, to the products of mills and warehouses, and all insects dangerous or injurious to the public health; to conduct experiments with methods for the prevention, arrest, abatement, and control of insects injurious to persons or property; to instruct the people, by lecture, demonstration, or bulletin, in the best methods of preserving and protecting their property and health against injuries by insects; and to publish articles on the injurious and beneficial insects of the state.

Its offices and collections are in the Natural History Building of the University and in the Entomology Building, originally provided for the State Entomologist. Its experimental equipment is in the latter building and in the Vivarium of the University, and its equipment for field biology is mainly on the Illinois River at Havana. It has also three field stations for economic entomology—each adequately equipped for field work and life history studies in the three sections of the state—established at Rockford, Urbana, and Carbondale respectively.

The bulletins of the Survey are published in continuation of both the bulletin of the Illinois State Laboratory of Natural History and the reports of the State Entomologist.

The library of the Survey, containing 64,500 books and pamphlets, and its zoological collections, which include 375,000 pinned insects, 26,000 bottles of insects in alcohol, and over 200,000 Illinois fishes, are available to instructors and students of the University for purposes of reference and study.

# STATE WATER SURVEY

---

## COMMITTEE

FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*  
KENDRIC C BABCOCK, Ph.D., LL.D., *Dean, College of Liberal Arts and Sciences, University of Illinois*

WILLIAM A NOYES, Ph.D., LL.D., *Professor of Chemistry, University of Illinois*

JOHN W ALVORD, C.E., *Consulting Engineer, Chicago*

## STAFF

ARTHUR M BUSWELL, A.M., Ph.D., *Chief*

GEORGE CONRAD HABERMEYER, B.S., *Engineer*

ROBERT EDMAN GREENFIELD, A.M., *Bacteriologist*

MARGARET CAMPBELL PERRY, A.M., *Bacteriologist*

CARL CLARENCE LARSON, B.S., *Chemist*

GAIL PHILLIPS EDWARDS, B.S., *Chemist*

A A BRENSKY, B.S., *Engineer*

ALICE C CLOFTON, *Chief Clerk*

The State Water Survey Division of the State Department of Registration and Education has succeeded to the duties of the Illinois State Water Survey, which had been organized in the Department of Chemistry of the University of Illinois in 1895. Offices and special laboratories are maintained in the Chemistry Building of the University of Illinois.

A chemical survey of the waters of the State was begun by the State Water Survey in the latter part of September, 1895. In 1897 the legislature authorized the continuance of the work and directed the Trustees of the University to establish a chemical and biological survey of the waters of the State. In 1911 the legislature made an increased appropriation and imposed additional duties on the State Water Survey.

The Survey had collected data concerning water supplies and sewer systems and had surveyed many watersheds.

According to the administrative code The State Water Survey Division cooperating with other Divisions of the Department, is to investigate and study the natural resources of the State, to prepare plans for their conservation and development, to cooperate with and advise Departments having administrative powers and duties relating to the natural resources of the State, to cooperate with similar Departments in other states and with the United States government, to study the geological formation of the State with reference to its resources in mineral and artesian water, to collect facts and data concerning the water resources of the State, to determine standards of purity for drinking water for the various sections of the State, to publish from time to time the results of its investigations of the waters of the State to the end that the available water resources may be better known and that the welfare of the people in the various communities may be conserved, to make analyses of samples of water from municipal or private sources, to consider and decide all matters pertaining to water and water resources and allied investigational and scientific research, to cooperate with the University of Illinois in the use of scientific staff and equipment, and to cooperate with the various Departments in research, investigational, and scientific work, useful in the prosecution of the work of any Department.

# STATE GEOLOGICAL SURVEY DIVISION

---

FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*

KENDRIC C BABCOCK, Ph.D., LL.D., *Dean of the College of Liberal Arts and Sciences, University of Illinois*

ROLLIN D SALISBURY, A.M., LL.D., *University of Chicago*

## STAFF

FRANK WALBRIDGE DEWOLF, B.S., *Chief, Urbana*

JAMES HAROLD HANCE, E.M., Ph.D., *Assistant Chief, Urbana*

ULYSSES SHERMAN GRANT, Ph.D., *Consulting Geologist in Lead and Zinc Studies, Northwestern University, Evanston*

SAMUEL WILSON PARR, M.S., *Consulting Chemist in Coal Investigations, University of Illinois*

EDWARD WIGHT WASHBURN, Ph.D., *Consulting Ceramic Engineer, University of Illinois*

CULLEN WARNER PARMELEE, B.S., *Consulting Ceramic Engineer, University of Illinois*

THOMAS EDMUND SAVAGE, Ph.D., *Geologist, University of Illinois*

STUART WELLER, Ph.D., *Geologist, University of Chicago, Chicago*

HARLAN H BARROWS, Ph.D., *Geologist, University of Chicago, Chicago*

NELLIE O BARRETT, B.S., *Assistant Geologist, Urbana*

HENRIETTA CHRISTENSON, B.S., *Assistant Geologist, Urbana*

LOUIS AUBREY MYLIUS, B.S., E.M., *Geologist, Urbana*

FRANK KREY, B.S., *Geologist, Urbana*

MORRIS MORGAN LEIGHTON, Ph.D., *Geologist, Urbana*

HAROLD EUGENE CULVER, Ph.M., *Geologist, Urbana*

DOUGLAS MOORE COLLINWOOD, B.S., *Geologist, Urbana*

LOUIS W CURRIER, B.S., *Geologist, Northwestern University, Evanston*

RUSSELL S KNAPPEN, B.S., *Geologist, University of Chicago, Chicago*

JOHN EVARTS LAMAR, B.S., *Assistant Geologist, Urbana*

FRANK BONNER LEONARD, J.D., *Investigator of Drainage Law, Champaign*

WILLIAM ALBERT DUNKLEY, B.S., *Gas Engineer, Urbana*

JUSTA M LINDGREN, A.M., *Chemist, Urbana*

GEORGE WELLINGTON PICKELS, C.E., *Drainage Engineer, University of Illinois*

CARROLL CARSON WILEY, C.E., *Drainage Engineer, University of Illinois*

CHAUNCEY B SCHMELTZER, B.S., *Assistant Drainage Engineer, University of Illinois*

In carrying out the primary purpose of the organization, field parties make investigations of oil, clay, coal, stone, artesian water, cement materials, road materials, and general scientific problems. They also conduct surveys for the completion of topographic and geologic maps of the State, in part in cooperation with the United States Geological Survey. Topographic surveys have been completed for almost 30 per cent of the State. Lawrence, Hardin, Randolph, and McDonough counties were added recently to the list of maps which are being made by combining and republishing the atlas sheets in county units.

To date fifty-seven volumes, fifteen of them belonging to the Mining Investigations Series, aggregating more than 7,000 pages, have been published, as well as numerous drainage, topographic, structural, and geologic maps.

During the war period Survey investigations were directed to many specific problems of considerable importance, bearing on the ability of the country to maintain essential industries. Much of this work has proved to be of permanent value. During the present biennium, and since the close of the war, special attention is being given to the study of available materials for use in constructing highways, according to the hard-road program which is being fostered by State and National Governments. In pre-war times much of the material used in Illinois was shipped into the State from Wisconsin and Indiana. The normal output would not begin to meet present requirements of a stimulated road program; and so special attention is being given to the search for quarry sites and gravel pits where suitable material may be produced close to transportation and particularly to the routes of the proposed highways. Another new and special investigation relates to the status of reclamation of overflowed lands in the State. Several thousand square miles remain to be reclaimed. The chief difficulties have been legal rather than physical, but the present investigation aims to determine the various difficulties and the possible remedies, and to lead to a State policy with regard to this important subject.

The excellent offices and laboratory quarters provided by the University in the Ceramics Building are well equipped for the conduct of the work of the Survey. Thousands of drill records, detailed mine notes, coal analyses, and other data on economic resources of Illinois form an active and growing collection which is invaluable and demands careful permanent preservation. From it is drawn much of our knowledge of the geology and mineral resources of the State.

Under an agreement between the College of Engineering, the United States Bureau of Mines, and the State Geological Survey Division, a station has been located at Urbana for a cooperative investigation of the Illinois mining industry, and the various agencies contribute men and funds for investigations under an agreed program.

# THE BOARD OF EXAMINERS IN ACCOUNTANCY

DAVID KINLEY, Ph.D., LL.D., PRESIDENT

---

## BOARD OF EXAMINERS

ALBERT T BACON, C.P.A., *Chairman*, Chicago

EDWARD E GORE, C.P.A., *Secretary*, Chicago

BARRY GILBERT, LL.B., Chicago

## UNIVERSITY COMMITTEE

MAURICE HENRY ROBINSON, Ph.D., *Chairman*

GEORGE PHILIP TUTTLE, B.S., *Secretary*

JOHN NORTON POMEROY, A.M., LL.B.

By a law passed in 1903 the State University is made an examining board of applicants for certificates as certified public accountants. To carry out the provisions of the law the Board of Trustees has appointed a board of three examiners to prepare, conduct, and grade examinations, and a University committee to conduct the routine work. Under the law one examination must be held each year in May, but examinations have been held also in November or December of each year in which there were a sufficient number of applicants. All the examinations thus far given have been held in the city of Chicago.

Applicants for the certificate of Certified Public Accountant are required to pass examinations in the theory of accounts, commercial law, auditing, and practical accounting.

The Illinois Society of Certified Public Accountants offers annually a gold medal and a silver medal to be awarded to the persons passing the C. P. A. examination with the highest total marking in all subjects and with the second highest total marking in all subjects respectively.

# COOPERATIVE INVESTIGATION OF PROBLEMS OF ILLINOIS MIN- ERAL INDUSTRIES

---

DAVID KINLEY, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY

## STAFF

### Engineering Experiment Station

CHARLES RUSS RICHARDS, M.E., M.M.E., D.Eng., *Director*

HARRY HARKNESS STOEK, D.Sc., E.M., *Professor of Mining Engineering*

JAMES RUSSELL FLEMING, E.M., *Research Associate in Mining Engineering*

### State Geological Survey

FRANK WALBRIDGE DEWOLF, B.S., *Chief*

WILLIAM ALBERT DUNKLEY, B.S., *Gas Engineer*

HAROLD EUGENE CULVER, Ph.B., Ph.M., *Coal Geologist*

### United States Bureau of Mines

FREDERICK GARDNER COTTRELL, B.S., Ph.B., *Director*, Washington, D.C.

GEORGE S RICE, E.M., *Chief Mining Engineer*, Washington, D.C.

DORSEY A LYON, Ph.D., *Supervisor of Stations*, Washington, D.C.

WILLIAM W ODELL, B.S., *Illuminating Gas Engineer, Acting Superintendent*, Urbana

THOMAS FRASER, B.S., *Assistant Engineer*, Urbana

HARRY FAGAN YANCEY, M.S., *Chemist*, Urbana

The Engineering Experiment Station, through the department of mining engineering of the University of Illinois, the State Geological Survey, and the United States Bureau of Mines, are cooperating throughout the State in investigations and dissemination of information, with a view to improving conditions in the mining, quarrying, metallurgical, and other mineral industries, safeguarding life among employees, preventing unnecessary waste of resources, and otherwise contributing to the advancement of these industries, under authority granted by the Forty-seventh General Assembly.

The University, through the Engineering Experiment Station, furnishes offices and laboratory facilities for the Bureau in Urbana, and takes part, through the Department of Mining Engineering, both in field work and in publication.

The State Geological Survey adds to the cooperation a staff of geologists who are giving particular attention to the mineral resources of the State and other geological problems.

The United States Bureau of Mines has established a mining experiment station at Urbana, with offices in the Ceramic Engineering Building, which are headquarters for the technical staff of Bureau engineers working in this district.

Through the cooperation of the three contracting parties, a staff of trained engineers, geologists, and metallurgists is at the disposal of the mining and metallurgical industries of Illinois.

PART VII  
LIST OF STUDENTS, ETC.  
(1920-1921)





# LIST OF STUDENTS, 1920-1921

## THE GRADUATE SCHOOL

Abbott, Howard Clinton—Botany B.S. ( <i>Michigan Agricultural Coll.</i> ), 1918	* † Lansing, Michigan
Adams, Elmer Wade—Organic Chemistry B.S., 1919	SS <sup>1</sup> Macomb
Alicante, Marcos Mondejar—Agronomy B.S. ( <i>Oregon State Agricultural Coll.</i> ), 1920	* † Urbana
Allen, Marie Trimble—Mathematics A.B. ( <i>Indiana Univ.</i> ), 1912	* † Bainbridge, Indiana
Allen, Roger William—Organic Chemistry B.S., M.S. ( <i>Alabama Polytechnic Inst.</i> ), 1913, 1919	† Birmingham, Alabama
Allison, Carl Walter—Education A.B., 1913	SS Jerseyville
Allison, Worth Arthur—Animal Husbandry B.S., A.B., M.S., 1916, 1917	* Charleston
Alwood, Fred Ward—Chemistry B.S., 1920	* † Clinton
Ambrose, Arthur Samuel—Dairy Chemistry B.S., 1914	SS * † Urbana
Anderson, Earl William—Education A.B., 1913	SS Charleston
Anderson, Harriett Maybelle—Psychology A.B., 1920	* † Urbana
Anderson, John Henning <sup>2</sup> —Civil Engineering B.S., 1914	* † Cleveland, Ohio
Andrews, Harry Lee—English A.B., A.M., 1916, 1919	SS Chicago
Andrews, John Wendell—Chemistry B.S. ( <i>Kansas State Agricultural Coll.</i> ), 1920	* † Manhattan, Kansas
Andrews, William Orus <sup>3</sup> —Civil Engineering B.S., 1913	* † Houston, Texas
Armstrong, Beulah May—Mathematics A.B. ( <i>Baker Univ.</i> ), 1917	* † Hutchinson, Kansas
A. M. ( <i>Univ. of Kansas</i> ), 1918	† Chicago
Atkinson, Harry Victor—Pharmacodynamics B.S. ( <i>Ohio State Univ.</i> ), 1911	
Austin, James Curtiss—Latin A.B. ( <i>Syracuse Univ.</i> ), 1916	* † Urbana
A.M., 1919	
Austin, Marion Jewett—English A.B. ( <i>Illinois Wesleyan Univ.</i> ), 1913	* † Bloomington
A.M., 1919	
Bailey, Dortha Bessie—Chemistry A.B. ( <i>Oberlin Coll.</i> ), 1918	* † Elyria, Ohio
M.S., 1920	
Baily, Henry Heaton—Economics Ph.B. ( <i>Univ. of Chicago</i> ), 1911	SS * † Urbana
Barber, Julia Minnetta—English A.B., A.M., 1913, 1915	* † La Fox
Barnes, Otis Avery—Chemistry B.S., M.S., 1916, 1918	SS * † Champaign
Barnett, George Rockwell—Chemistry B.S. ( <i>Monmouth Coll.</i> ), 1918	* † Peoria
Baron, Annette—Psychology A.B. ( <i>Illinois Wesleyan Univ.</i> ), 1918	
A.M., 1920	* † Lyon, France
Barry, Jennie Eulalia—Dairy Husbandry A.B., 1918	SS * Champaign
Bartow, Virginia—Chemistry A.B. ( <i>Vassar Coll.</i> ), 1918	SS * † Iowa City, Iowa
Bell, Mary Elizabeth—Chemistry B.S., 1920	* † Champaign
Belleff, Vladimir Tane—Agronomy B.S., 1920	* Urbana
Bender, Harry Albert—Mathematics A.B. ( <i>Ohio Univ.</i> ), 1913	* † Uhrichsville, Ohio
Benne, Mary Aloysius—English A.B. ( <i>New Rochelle Coll.</i> ), 1919	SS Rock Island
Bennett, Orval—Economics A.B., A.M. ( <i>Indiana Univ.</i> ), 1915, 1917	SS * Indianapolis, Indiana
Bierbaum, Elmer Alfred—Horticulture B.S., 1913	* Allon

\* Attendance first semester indicated by the asterisk (\*); second semester by the dagger (†).

<sup>1</sup>Summer Session.

<sup>2</sup>Candidate for professional degree in engineering.

Bixby, Alice Lorena—English A.B. ( <i>Univ. of Nebraska</i> ), 1915 A.M. ( <i>Columbia Univ.</i> ), 1920		* Lincoln, Nebraska
Black, Howard Benjamin—Education B.S. ( <i>Baldwin-Wallace Coll.</i> ), 1911	SS	Mattoon
Blain, Walter Leroy—Botany A.B. ( <i>Wabash Coll.</i> ), 1916		* † Columbus City, Indiana
Bolton, Ralph Waldo—Electrical Engineering B.S., 1918		* † Pittsburgh, Pennsylvania
Bond, Roger Moore—Chemistry A.B. ( <i>Monmouth Coll.</i> ), 1920		* Appleton, Wisconsin
Bonnen, Clarence Alfred—Economics B.S., 1920		* † Urbana
Bosman, Vernon—Chemistry B.A., M.A. ( <i>Univ. of Cape Town</i> ), 1917, 1918	SS	* † Cape Town, South Africa
Boucher, Helene Virginie—French A.B. ( <i>Oberlin Coll.</i> ), 1917		* Urbana
Bowler, Felix Fielding—English A.B. ( <i>Howard Univ.</i> ), 1906	SS	Cairo
Bradley, Manson James—Chemistry A.B., A.M. ( <i>McMaster Univ.</i> ), 1915	SS	* † Toronto, Ontario, Canada
Brady, George Keyports—English A.B., 1916		* † New York, New York
Brakensiek, Jessie Delight—Mathematics A.B., 1909	SS	Quincy
Brayton, Margaret Morrison—Latin Ph.B. ( <i>Univ. of Chicago</i> ), 1920		* † Urbana
Breathwit, Rachel Augusta—Romance Languages A.B., 1920	SS	* † Wichita Falls, Texas
Brede, Lothar Homer—Chemistry B.S., 1919		* † Collinsville
Bredvold, Louis Ignatius—English A.B., 1909		* † Urbana
Brensky, Albert Abraham—Civil Engineering B.S., 1919		* † Chicago
Brett, Axel—Philosophy A.B. ( <i>Gustavus Adolphus Coll.</i> ), 1912 A.M. ( <i>Univ. of Minnesota</i> ), 1914		* † Urbana
Brewbaker, Harvey Edgar—Agronomy 133 hrs. ( <i>Univ. of Illinois</i> )		† Bardolph
Bright, Leslie Orville—Education A.B., 1915	SS	Mt. Carmel
Brightfield, Myron Franklin—English A.B., A.M. ( <i>Harvard Univ.</i> ), 1919, 1920		† Urbana
Brink, Royal Alexander—Farm Crops B.S. ( <i>Ontario Agricultural Coll.</i> ), 1919		* † Woodstock, Ontario, Canada
Broshar, Helen—History A.B., 1920		* † Champaign
Brown, Charlotte Fay—Chemistry B.S. ( <i>Eureka Coll.</i> ), 1920	SS	* † Canton
Brown, Hugh Alexander—Electrical Engineering B.S., 1911		† Urbana
Brown, John Bernis—Chemistry B.S., M.S., 1915, 1917		* † Rock Falls
Brown, Pembroke Holcomb—Economics A.B., A.M., 1915, 1917		* † Urbana
Brown, Rex L.—Theoretical and Applied Mechanics B.S. ( <i>Univ. of Kansas</i> ), 1919		* † Urbana
Buck, Miriam Gertrude—Chemistry A.B., 1920		* † Vincennes, Indiana
Budhe, Jauardan Sohasra—Horticulture B.S., 1921		† Urbana
Burgum, Edwin Berry—English A.B. ( <i>Dartmouth Coll.</i> ), 1915 A.M. ( <i>Harvard Univ.</i> ), 1917		* † Concord, New Hampshire
Burnett, Waldo Briggs—Chemistry A.B. ( <i>Southern Methodist Univ.</i> ), 1919		* † Dallas, Texas
Burr, George Oswald—Chemistry A.B. ( <i>Hendrix Coll.</i> ), 1916 A.M. ( <i>Univ. of Arkansas</i> ), 1920		* † Conway, Arkansas
Busey, Garreta Helen—English A.B. ( <i>Wellesley Coll.</i> ), 1915		† Urbana
Busey, Robert Oscar—French A.B., 1900 A.M., Ph.D. ( <i>Harvard Univ.</i> ), 1906, 1912		* Urbana
Bussell, Nellie Eileen—Education A.B. ( <i>Univ. of Wisconsin</i> ), 1913	SS	Urbana
Buswell, Constance Anna—English A.B. ( <i>Iowa Teachers' Coll.</i> ), 1916		* † Waterloo, Iowa
Butler, William Glenn—Animal Husbandry B.S., 1914	SS	* † Cairo
Byrd, Paul Jones—Botany A.B. ( <i>Wabash Coll.</i> ), 1913		* † Crawfordsville, Indiana

<sup>1</sup>Candidate for professional degree in engineering.

Campbell, Mason Herbert—Genetics B.S., 1917	* † Valparaiso, Indiana
Cannon, William Dail—Electrical Engineering B.S. ( <i>Delaware Coll.</i> ), 1918	* † Bridgeville, Delaware
Capps, Arlie Glenn—Education B.S., A.M. ( <i>Univ. of Missouri</i> ), 1916, 1917	* † Stahl, Missouri
Cardinal, Ezra V.—History A.B., 1920	SS Bourbonnais
Carnahan, Orson Allen <sup>1</sup> —Mechanical Engineering B.S., 1910	* † Syracuse, New York
Carney, Sidney Sylvester—Farm Crops B.S., 1920	* † Steward
Carothers, Wallace Hume—Chemistry B.S. ( <i>Tarkio Coll.</i> ), 1920	* † Des Moines, Iowa
Carry, Charles Seraphim—French B. es.L. ( <i>Besancon, France</i> ), 1909	SS Urbana
Cheney, George Henry—Organic Chemistry B.S. ( <i>Univ. of Maine</i> ), 1919	* † Gardiner, Maine
Cheo, Teh Hsi—Transportation A.B. ( <i>Univ. of Nanking</i> ), 1915	SS * Nanking, China
Cherf, John Frank—Latin A.B. ( <i>St. Procopius Coll.</i> ), 1915	* † Antigo, Wisconsin
Chiles, Howard Marion—Chemistry B.S., M.S., 1917, 1920	SS * † Carlinville
Christian, Virgil Langdon—Education A.B. ( <i>Georgetown Coll.</i> ), 1909	SS Anchorage, Kentucky
Christman, Adam Arthur—Chemistry B.S. ( <i>Grinnell Coll.</i> ), 1917 M.S., 1920	* † Shannon † Peoria
Clark, Bruce Byrne—Soils B.S., 1921	SS Benton
Clem, Orlie Martin—Education A.B., 1918	SS * † Paombong, Philippine Islands
Clemente, Leopoldo S Y de la Rosa—Genetics B.S., 1920	† Urbana
Clevenger, Arthur Wilbur—Education B.S. ( <i>Earlham Coll.</i> ), 1911 A.M. ( <i>Columbia Univ.</i> ), 1916	* † Dayton, Ohio
Clippinger, Frank Warren—English A.B. ( <i>Wabash Coll.</i> ), 1916 A.M., 1917	* † Minneapolis, Minnesota
Colby, Ralph—English A.B., A.M. ( <i>Univ. of Minnesota</i> ), 1916, 1917	SS * † Champaign
Coleman, George Hopkins—Organic Chemistry B.S. ( <i>Grenville Coll.</i> ), 1915 M.S., 1919	SS Roundup, Montana
Collins, Irvin Bliss—Education A.B., 1917	* † St. Paul, Minnesota
Cowie, Alexander Robertson—English A.B. ( <i>Univ. of Minnesota</i> ), 1919	* † Greeley, Colorado
Crabb, David Wendell—Accountancy A.B. ( <i>Colorado Coll.</i> ), 1920	SS Huntsville
Crandall, Bert Harrison—Education B.S., 1920	* † Clinton, Iowa
Crawford, Thomas <sup>1</sup> —Electrical Engineering B.S., 1894	* † Oxford, Ohio
Crecraft, Gordon Randolph—English A.B. ( <i>Miami Univ.</i> ), 1918	* † Urbana
Cremeans, Lola Merle—Home Economics A.B., 1920	* † Chicago
Cullen, Katharine Wheeler—English A.B., 1920	* † Philadelphia, Pennsylvania
Cupit, George William, Jr.—Chemistry B.S. ( <i>Pennsylvania State Coll.</i> ), 1919	* † Paxton
Dale, Charles Sherman—Education B.S., 1920	* † Champaign
Darby, Hayes Tryford—Physical Chemistry B.S. ( <i>Ohio State Univ.</i> ), 1912	SS * † Abingdon
Darling, Laverne Henry—History A.B. ( <i>Eureka Coll.</i> ), 1894	SS Atwood
Davis, Helen Gross—Psychology A.B., 1918	* † Champaign
Davis, Ida Belle—English A.B. ( <i>Northwestern Univ.</i> ), 1911	* † Milwaukee, Wisconsin
Davis, John Blackwell—Chemistry B.S. ( <i>Beloit Coll.</i> ), 1920	SS Donnellson
Davis, Lyman Kent—Education A.B., 1919	* Urbana
Day, Harry Warren—Horticulture B.S., 1917	* † Washington, D. C.
Denison, Irving Alson—Agronomy B.S., 1920	* Lancaster, Pennsylvania
Diffenbaugh, Guy Linton—English A.B. ( <i>Franklin &amp; Marshall Coll.</i> ), 1912 A.M. ( <i>Harvard Univ.</i> ), 1915	

<sup>1</sup>Candidate for professional degree in engineering.

- Dodge, Julia Voorhees—Economics  
Ph.B. (*Univ. of Chicago*), 1916
- Dolch, Edward William, Jr.—Education  
A.B. (*Washington Univ.*), 1915  
A.M. (*Univ. of Wisconsin*), 1918
- Doshi, Narsinhdas Chhaganlal—Organic Chemistry  
A.B., B.S. (*Gujrat and Wilson Colleges*), 1919, 1920
- Douglas, Theodore Wayland—English  
A.B. (*Miami Univ.*), 1918
- Dowell, Ruth Isobel—Botany  
A.B. (*Smith Coll.*), 1920
- Downing, Helen Rebecca—English  
136 hrs. (*Univ. of Illinois*)
- Dreger, Emil Edward—Chemistry  
B.S. (*North-Western Coll.*), 1916
- Driggs, Frank Howard—Chemistry  
A.B. (*Baker Univ.*), 1917
- Du Bois, Martha Harriet—History  
A.B., 1919
- Dungan, George Harlan—Botany  
B.S., 1917
- Dunn, Max Shaw—Chemistry  
A.B. (*Simpson Coll.*), 1916  
M.S., 1918
- Eckl, Mildred Lee—Mathematics  
A.B. (*North-Western Coll.*), 1920
- Edington, William Edmund—Mathematics  
A.B. (*Indiana State Normal*), 1909  
A.M., 1919
- Edwards, Alice Leora—Economics  
B.S. (*Oregon Agricultural Coll.*), 1906  
B.S., A.M. (*Columbia Univ.*), 1915, 1917
- Edwards, Gail Phillips—Chemistry  
B.S., 1918
- Ellis, Orland I.—Soils  
B.S., 1912
- Ellis, Ray George—Economics  
B.S., Pd.B. (*Syracuse Univ.*), 1917
- Engle, Earl Agard—Chemistry  
A.B., A.M. (*Univ. of Denver*), 1918, 1919
- Enyart, Melville York—Chemistry  
132½ hrs. (*Univ. of Illinois*)
- Evans, John Edward—Mechanical Engineering  
B.S., 1912
- Ewing, William Thomas—Education  
B.S. (*Beloit Coll.*), 1912
- Fairman, Charles—History  
A.B., A.M., 1918, 1920
- Fajardo, Euripides<sup>1</sup>—Civil Engineering  
B.S., 1913  
C.E. (*Univ. of Havana*), 1915
- Fanning, Ralph—Architectural History  
B.Arch. (*Cornell Univ.*), 1912  
M.S., 1918
- Faust, Rudolph Alfred—Chemistry  
B.S., 1920
- Fazel, Charles Stever—Physics  
A.B. (*Fairmount Coll.*), 1914  
A.M., Ph.D., 1915, 1920
- Felbeck, George Theodore—Mechanical Engineering  
B.S., 1919
- Fine, Isadore Leonard—Chemistry  
B.S., 1920
- Finley, Willard Lyle—Chemistry  
B.S. (*Geneva Coll.*), 1920
- FitzGerald, Thomas Austin—Romance Languages  
A.B. (*Univ. of Missouri*), 1913
- Fitzpatrick, Thomas Edward—English  
A.B. (*St. Viator Coll.*), 1918
- Fjeld, Erastus Immanuel—Economics  
B.S., 1920
- Fleisig, Anselm Joseph—Mathematics  
A.B. (*St. Procopius Coll.*), 1911
- Fleming, Denna Frank—Political Science  
A.B., 1916
- Fleming, Edith Doane—English  
A.B. (*Southwestern Coll.*), 1917
- Fogler, Mayor Farthing—Chemistry  
B.S., 1920
- Foley, Margaret Ebert—Romance Languages  
A.B. (*Ohio Wesleyan Univ.*), 1919
- Fonseca, Manuel—Agronomy  
Work completed for degree
- Ford, Carlotta Marks—Home Economics  
A.B., 1911
- \* Danville
- \* Urbana
- \* Wadhwani City, India
- \* † Indianapolis, Indiana
- \* † Providence, Rhode Island
- † Bowen
- SS \* † Chippewa Falls, Wisconsin
- \* † Baldwin, Kansas
- \* † Eldorado
- \* † Indianapolis, Indiana
- SS \* † Long Beach, California
- \* † Dayton, Ohio
- SS \* † Urbana
- \* Urbana
- SS \* † Chicago
- \* † Urbana
- \* † East Concord, New York
- \* † Denver, Colorado
- † Chicago
- \* † New York, New York
- SS Freeport
- SS Alton
- \* † Santiago, Cuba
- \* † Riverhead, Long Island, N. Y.
- \* † Washington, D. C.
- SS Wichita, Kansas
- \* † Kansas City, Missouri
- \* Denver, Colorado
- \* † Sparta
- SS \* † Gerald, Missouri
- SS Bourbonnais
- SS \* † Northfield, Minnesota
- \* Cleveland, Ohio
- SS Paris
- SS Sedgwick, Kansas
- SS \* † Champaign
- \* † Zanesville, Ohio
- † Callao, Peru
- † Geneva

<sup>1</sup>Candidate for professional degree in engineering.

Fox, Rayburn Charles—Education A.B. ( <i>McKendree Coll.</i> ), 1918	SS	Lebanon
Fraser, Thomas <sup>1</sup> —Mining Engineering B.S., 1917	* †	Urbana
Frison, Theodore Henry—Biological Entomology A.B., A.M., 1918, 1920	* †	Champaign
Fritts, Edwin Coulthard—Physics B.S. ( <i>Georgetown Univ.</i> ), 1917	* †	Lexington, Kentucky
Fukuda, Masarn—Electrical Engineering Degree ( <i>Tokyo Imperial Univ.</i> ), 1899	* †	Tokyo, Japan
Fusejima, Shinkuro—Theoretical and Applied Mechanics Degree ( <i>Imperial Univ.</i> ), 1918	* †	Tokyo, Japan
Galster, Augusta Emilie—Economics A.B., A.M., 1918, 1920	SS * †	Tower Hill
Garrett, Sherman Scott—Chemistry 126 hrs. ( <i>Univ. of Illinois</i> )	†	Champaign
Gates, Theodore Jay—English A.B. ( <i>Alma Coll.</i> ), 1915	SS	Normal
Geeting, Winona Pearl—Home Economics B.S. ( <i>Miami Univ.</i> ), 1917	SS	Liberty, Indiana
Giddings, Mate Lewis—Home Economics A.B., 1917	* †	Danville
Gidinghagen, Myrtle Rosalie—Romance Languages A.B. ( <i>Univ. of Kansas</i> ), 1919	* †	Kansas City, Missouri
Gildersleeve, Mina Alice—French A.B. ( <i>Oxford Coll.</i> ), 1915	SS	Champaign
Ginnings, Paul Meade—Chemistry B.S., M.S., 1919, 1920	* †	Macomb
Glick, Harry Newton—Education A.B. ( <i>Bridgewater Coll.</i> ), 1913 A.M. ( <i>Northwestern Univ.</i> ), 1914	†	Bridgewater, Virginia
Godlove, Isaac Hahn—Physical Chemistry B.S., A.M. ( <i>Washington Univ.</i> ), 1914, 1915	SS *	St. Louis, Missouri
Goebel, Walther Friedrich—Organic Chemistry A.B., 1920	* †	Urbana
Goodman, Byne Frances—History A.B., A.M., 1912, 1913	SS	Champaign
Graesser, Roy French—Mathematics A.B., 1919	SS * †	Burlington, Iowa
Graves, George DeWitt—Chemistry B.S. ( <i>Washington Univ.</i> ), 1920	SS	St. Louis, Missouri
Greenfield, Robert Edman—Chemistry A.B. ( <i>Univ. of Kansas</i> ), 1914 A.M., 1916	SS * †	Champaign
Griffith, Jean Paul—Horticulture B.S. ( <i>Cornell Univ.</i> ), 1917	* †	Washington, D. C.
Griffith, Mrs. Louise Coleman—English A.B., 1920	SS *	Champaign
Griffith, Wendell Horace—Biological Chemistry B.S. ( <i>Greenville Coll.</i> ), 1917 M.S., 1919	* †	Evanston
Grisemer, Walter—Mathematics A.B., 1918	SS * †	Bunker Hill, Indiana
Guba, Emil Frederick—Botany B.S. ( <i>Massachusetts Agricultural Coll.</i> ), 1919	* †	New Bedford, Massachusetts
Guiet, Rene George—French A.B., 1920	SS * †	Rennes, France
Guild, Wilbur Gillfillan—Mathematics B.S. ( <i>Illinois Wesleyan Univ.</i> ), 1920	* †	Bloomington
Guntton, John Aberdeen—Chemistry A.B., A.M. ( <i>McMaster Univ.</i> ), 1916, 1917	SS * †	Simcoe, Ontario, Canada
Gwinn, Paul Curtis—Chemistry A.B. ( <i>Indiana State Normal</i> ), 1917 M.S., 1920	†	Terre Haute, Indiana
Hackley, Elizabeth Pursel—Education A.B., 1917	SS	Urbana
Haffey, Marie—History A.B. ( <i>Coll. of St. Teresa</i> ), 1917	SS	Rock Island
Hague, Florence Sander—Zoology A.B., B.S., M.S. ( <i>Univ. of Kansas</i> ), 1911, 1913, 1914	* †	Urbana
Haldeman, William Strubhar—Organic Chemistry B.S. ( <i>Univ. of Pennsylvania</i> ), 1914 A.M. ( <i>Howard Univ.</i> ), 1920	SS	Monmouth
Hale, Robert William, Jr.—Organic Chemistry A.B. ( <i>John Hopkins Univ.</i> ), 1916	SS *	Fostoria, Ohio
Hall, Ada Roberta—Zoology A.B., A.M. ( <i>Univ. of Oregon</i> ), 1917, 1919	* †	Portland, Oregon
Hall, Blanche Marie—Mathematics A.B. ( <i>Georgetown Coll.</i> ), 1920	SS * †	Woodburn, Kentucky
Hall, Joseph Lowe—Chemistry B.S., 1919	* †	Sullivan
Hall, Russell Alger—Theoretical and Applied Mechanics B.C.E. ( <i>Univ. of Michigan</i> ), 1916	†	Blissfield, Michigan
Ham, Lloyd Blinn—Experimental Physics A.B. ( <i>Bates Coll.</i> ), 1914 A.M., 1920	* †	Cedar Grove, Maine

<sup>1</sup>Candidate for professional degree in engineering.

Hamilton, Thomas Sherman—Chemistry B.S., 1917	SS	* † Champaign
Handschin, Walter Frederick—Animal Husbandry B.S., 1913		* † Urbana
Harland, Marion Boyer—Soils B.S., 1920		* † Urbana
Harrah, Ezra Clarence—Zoology A.B. ( <i>Southwestern Coll.</i> ), 1913 A.M., 1919		* † Urbana
Harris, Benjamin Raczkowski—Chemistry B.S. ( <i>New York City Coll.</i> ), 1917	SS	* † Brooklyn, New York
Harris, Minnie Frances—English A.B. ( <i>Carthage Coll.</i> ), 1920		* † Chicago
Hartman, Anabel Eugenia—English A.B. ( <i>Goucher Coll.</i> ), 1908		* † Baltimore, Maryland
Harwood, Sylvan Dix—English A.B., 1916		* † Carrollton
Hatfield, Margaret—Home Economics A.B. ( <i>Univ. of Toronto</i> ), 1916		* † Evanston
Hazelet, Craig Potter—Civil Engineering B.S. ( <i>Univ. of Washington</i> ), 1915		† Champaign
Hedgecock, John Harrison—Agronomy B.S., 1915		† Plymouth
Henares, Hilarion Gensole—Mechanical Engineering B.S., 1921		† Bacolod, Philippine Islands
Heinekamp, Walter John Richard—Pharmacology B.S., M.S. ( <i>Univ. of Illinois, College of Medicine</i> ), 1919, 1920	SS	Chicago
Herrmann, Clarence Charles—Economics B.S., 1920		* † Kenosha, Wisconsin
Hersh, Amos Henry—Zoology A.B., A.M. ( <i>Franklin and Marshall Coll.</i> ), 1914, 1915	SS	* † Lancaster, Pennsylvania
Hershey, Charlie Brown—Education A.B., 1914		* † Piqua, Ohio
Hetherington, Duncan Charteris—Zoology A.B. ( <i>Colorado Coll.</i> ), 1919 A.M., 1929		* † Colorado Springs, Colorado
Hetherlin, Esther Elizabeth—English A.B. ( <i>Illinois Woman's Coll.</i> ), 1920		* † Louisiana, Missouri
Hewes, George Cavender, Sr.—Chemistry B.S., 1883 S.T.B. ( <i>De Pauw Univ.</i> ), 1891	SS	Barbourville, Kentucky
Hiatt, Jennie May—French A.B. ( <i>Eureka Coll.</i> ), 1908	SS	Eureka
Hildreth, Gertrude Howell—Education A.B. ( <i>North-Western Coll.</i> ), 1920		* † Indianapolis, Indiana
Hill, Charles Francis—Experimental Physics A.B., A.M., 1914, 1916	SS	* † Urbana
Hill, Robert McClaughry—Chemistry B.S. ( <i>Carthage Coll.</i> ), 1915		* † Carthage
Himmelright, Robert John—Accountancy A.B. ( <i>Miami Univ.</i> ), 1920		* † Piqua, Ohio
Ho, Elbert Dung Wui—Chemistry B.S. ( <i>Univ. of Hawaii</i> ), 1920		* Honolulu, Hawaii
Hobart, Clyde Monroe—Mathematics A.B., A.M., 1912, 1913	SS	* Champaign
Hobart, Floyd Beatty—Chemistry B.S., 1920	SS	* † Champaign
Hochscher, Randolph Philip—Physics B.S. ( <i>Purdue Univ.</i> ), 1917		† Evansville, Indiana
Hofacker, Olga Vera—English A.B., A.M., 1911, 1920	SS	Peoria
Hogan, Carlton Monta—Economics A.B., A.M., 1918, 1920	SS	Champaign
Hoke, Gladys—Entomology B.S. ( <i>Mississippi State Coll. for Women</i> ), 1916		† Como, Mississippi
Horst, Ralph Lester—Chemistry A.B. ( <i>Nebraska Wesleyan Univ.</i> ), 1918		* † Osceola, Nebraska
Hsieh, Tu Lien—Economics A.B. ( <i>Univ. of Peking</i> ), 1918		† Shansi, China
Huff, James Orton—English A.B., A.M., 1911, 1912	SS	Urbana
Humphreys, Florence Miller—English A.B. ( <i>Colorado Coll.</i> ), 1912 A.M. ( <i>Rodcliffe Coll.</i> ), 1915		* † Denver, Colorado
Hunter, Alfred Hughlyni—Civil Engineering B.S., 1917		* Peoria
Hunter, Harold Emory—Mathematics B.S. ( <i>Hedding Coll.</i> ), 1920		* † Winifred, Montana
Huntley, Otto Erskine—Chemistry A.B. ( <i>Hope Coll.</i> ), 1918		* † Holland, Michigan
Hurst, John Wildeboor—Mathematics B.S. ( <i>Univ. of Missouri</i> ), 1920		* † Garden City, Missouri
Hyde, Elizabeth Charlotte—Physical Chemistry A.B. ( <i>Mt. Holyoke Coll.</i> ), 1909		* † Malone, New York

\*Candidate for professional degree in engineering

- Ingersoll, Arthur William—Chemistry  
B.S., M.S. (*Univ. of Nebraska*), 1917, 1919
- Jacobson, Henry George Martin—Soil Fertility  
B.S., 1918
- Jasper, Thomas McLean<sup>1</sup>—Civil Engineering  
B.S., M.S., 1911
- Jenkins, Russell Lewis—Chemistry  
B.S. (*Univ. of Pittsburgh*), 1920
- Jensen, William Jacob—Physics  
A.B. (*Carleton Coll.*), 1920
- Johnson, Everett Louie—Animal Husbandry  
127 hrs. (*Univ. of Illinois*)
- Johnson, John Raven—Chemistry  
B.S., M.S., 1919, 1920
- Johnston, Mrs. Nell Bomar—Education  
A.B. (*Cowern Coll.*), 1899
- Jones, Florence Dorothea—Education  
B.S., 1920
- Jones, Valentine Austin—Chemistry  
B.S., 1921
- Jorgensen, Mrs. Sarah Grace—Psychology  
A.B., 1909
- Junkin, Della Darle—Chemistry  
A.B. (*Univ. of Michigan*), 1912
- Kammblade, William Garfield—Animal Husbandry  
B.S. (*Univ. of Wisconsin*), 1915
- Karraker, Alva Hugo—Soils  
B.S., 1916  
A.B. (*William Jewell Coll.*), 1919
- Karrer, Roselle—Chemistry  
A.B., 1921
- Kaufmann, Ralph Jennings—Chemistry  
A.B., A.M. (*Oberlin Coll.*), 1918
- Kaufmann, Wilford Edward—Organic Chemistry  
A.B., A.M. (*Oberlin Coll.*), 1918, 1919
- Keith, Mary Helen—Animal Nutrition  
B.S. (*Mt. Holyoke Coll.*), 1894  
A.B. (*Columbia Univ.*), 1901
- Kelley, Cornelia Pulsifer—English  
A.B. (*Colby Coll.*), 1918  
A.M. (*Radcliffe Coll.*), 1920
- Kienholz, Aaron Raymond—Botany  
B.S. (*North-Western Coll.*), 1917
- King, William Robert, Jr.—Chemistry  
B.S. (*Monmouth Coll.*), 1920
- Klaragard, Sever—Economics  
A.B. (*St. Olaf Coll.*), 1917
- Knight, Abner Richard<sup>1</sup>—Electrical Engineering  
M.E. (*Ohio State Univ.*), 1909  
M.S., 1917
- Knudsen, Charles William—Education  
B.S., 1913
- Kollme, Sidney Pockels—Chemistry  
B.S. (*Washington Univ.*), 1920
- Kopf, Frank Alexander—Education  
A.B., 1916
- Kordenat, Ralph August—Pathology  
B.S. (*Univ. of Illinois, Coll. of Medicine*), 1919
- Koten, Irvin Alvin—Chemistry  
A.B. (*North-Western Coll.*), 1920
- Kraft, Adolph—Bacteriology  
B.S., M.S., (*Univ. of Illinois, Coll. of Medicine*), 1919, 1920
- Kreger, Clarence William—Organic Chemistry  
A.B. (*Miami Univ.*), 1919
- Krieg, Amelia—Romance Languages  
A.B., B.L.S., 1917, 1920
- Laible, Russell James—Animal Husbandry  
B.S., 1920
- Lamb, Hallie Eunice—History  
A.B., 1917
- Lamb, John, Jr.—Agronomy  
B.S., 1918
- Lampertz, Edward Julius—Economics  
B.S. (*Northwestern Univ.*), 1919
- Landis, Paul Nissley—English  
A.B., A.M. (*Franklin and Marshall Coll.*), 1913, 1915
- Lange, Paulus John Herman—English  
A.B. (*Augsburg Coll.*), 1918  
A.M., 1920
- Langley, Wilson Davis—Organic Chemistry  
B.S., M.S. (*Wesleyan Univ.*), 1918, 1919
- Lapp, Claude Jerome—Physics  
A.B. (*Albion Coll.*), 1917  
A.M., 1920
- SS \* † Cook, Nebraska  
† Champaign  
\* † Madison, Wisconsin  
\* † Richmond, Indiana  
\* † Dalhart, Texas  
† St. Charles  
SS \* † Chicago  
† Urbana  
\* † Raymond  
† Buffalo, New York  
SS Champaign  
\* † Great Falls, Montana  
† Sparta, Wisconsin  
† Dongola  
† Seattle, Washington  
\* † Massillon, Ohio  
† Urbana  
\* † Braintree, Massachusetts  
\* † Waterville, Maine  
\* † Big Stone City, South Dakota  
SS \* † St. Louis, Missouri  
\* † Austefjorden, Norway  
\* † Columbus, Ohio  
SS Eureka  
\* † St. Louis, Missouri  
SS Atlanta, Georgia  
SS Oak Park  
\* † Two Rivers, Wisconsin  
SS Gilman  
\* † Cincinnati, Ohio  
\* Riverside  
† Freeport  
\* Champaign  
\* Worden  
\* † St. Louis, Missouri  
\* † Womelsdorf, Pennsylvania  
SS Lime Spring, Iowa  
SS \* † Erie, Pennsylvania  
SS \* † Richmond, Michigan

<sup>1</sup>Candidate for professional degree in engineering.

Larson, Carl Clarence—Chemistry B.S., 1918	SS * † Mazon
Larson, Louis J.—Theoretical and Applied Mechanics B.S., C.E. ( <i>Univ. of Minnesota</i> ), 1914, 1915	* Urbana
Leach, Aelia M.—Bacteriology A.B. ( <i>Univ. of Chicago</i> ), 1910	* Hastings, Michigan
Leek, John Halvor—Political Science A.B. ( <i>James Millikin Univ.</i> ), 1920	* † Pittsfield
Leichsenring, Jane Marie—Physiology B.S., 1919	* † Gross Point
Leist, Claude—Zoology A.B., 1918	* † Paris
Leisy, Ernest Ervin—English A.B. ( <i>Univ. of Kansas</i> ), 1913	SS * † Newton, Kansas
A.M. ( <i>Univ. of Chicago</i> ), 1917	SS Carlinville
Le Marr, Paul Earl—History B.E. ( <i>Illinois State Normal Univ.</i> ), 1918	* † Rantoul
Leonard, Veda Fern—Zoology A.B., 1919	* † Burlington, Iowa
Leshner, Florence Elanore—English A.B. ( <i>Carthage Coll.</i> ), 1920	SS Jacksonville
Laurig, Paul Murray—History A.B. ( <i>Illinois Coll.</i> ), 1918	* † West Lafayette, Indiana
Lewis, Ernest Paul—Horticulture B.S. ( <i>Purdue Univ.</i> ), 1920	SS Danville
* Lewis, Lucy Elfa—Mathematics A.B., 1911	* † Decatur
Lewman, Ruth Lorena—Romance Languages A.B. ( <i>James Millikin Univ.</i> ), 1915	SS * † Urbana
Libman, Earl Emanuel—Chemistry B.S., M.S., 1916, 1920	† Fairfield
Linsley, Clyde Maurice—Soils B.S., 1911	† Hsien, China
Liu, Chin Chang—Economics A.B. ( <i>Univ. of Peking</i> ), 1916	* † Fredericksburg, Texas
Lochte, Harry Louis—Organic Chemistry A.B. ( <i>Univ. of Texas</i> ), 1918	* † Lewiston, Maine
Lougee, Dora Aileen—Latin A.B. ( <i>Bates Coll.</i> ), 1917	* † Lewiston, Maine
Lougee, Flora Marion—Chemistry A.B. ( <i>Bates Coll.</i> ), 1914	† Libertyville
Lovell, Clarence B.—Chemistry B.S., 1921	* † Columbus, Indiana
Lowe, Clarence George—Greek A.B. ( <i>Franklin Coll.</i> ), 1919	* † Andover, Massachusetts
Lowe, Lucretia—English A.B., A.M. ( <i>Radcliffe Coll.</i> ), 1918, 1919	* † Detroit, Michigan
Lundgren, Frederick Gunard—Mechanical Engineering B.S., 1916	* † DeKalb
Luney, Francis Solon <sup>1</sup> —Mechanical Engineering B.S., 1907	* † Mt. Vernon
McAnally, Marian Pace—English A.B., 1920	* Jackson Center, Ohio
McCormick, Robert Eugene <sup>1</sup> —English A.B. ( <i>Miami Univ.</i> ), 1918	SS Monmouth
McCoy, Edwin Earl—Education B.S. ( <i>Monmouth Coll.</i> ), 1920	* † Attica, Indiana
McCrea, Forrest Draper—Bacteriology A.B. ( <i>Purdue Univ.</i> ), 1918	SS New Wilmington, Pennsylvania
McCrumb, Fred Rodgers—Chemistry B.S. ( <i>Westminster Coll.</i> ), 1917	SS Urbana
M.S., 1920	* † St. Louis, Missouri
McDougle, Verne Russell—Economics A.B. ( <i>Univ. of Wisconsin</i> ), 1916	* † Parsons, Kansas
McElvain, Samuel Marion—Organic Chemistry B.S. ( <i>Washington Univ.</i> ), 1920	SS Jasper, Alabama
* McFarlan, Lee Horace—Mathematics B.S. ( <i>Univ. of Missouri</i> ), 1918	† Urbana
McGregor, Leila—History A.B. ( <i>Congress Coll.</i> ), 1914	SS Hudgens
McIntire, Leo Glenn—Economics B.S., 1920	* † Ontario, Canada
McKinney, Henry Theodore—Education A.B., A.M., 1913, 1915	* † Los Angeles, California
McLarty, Harold Rose—Botany B.A., M.A. ( <i>McMaster Univ.</i> ), 1916, 1920	* † Furniss, Pennsylvania
McNeely, John Knox—Electrical Engineering B.S. ( <i>Univ. of California</i> ), 1908	* † Clinton
A.M. ( <i>Univ. of Southern California</i> ), 1917	
McSparran, Dorothy—English A.B. ( <i>Cornell Univ.</i> ), 1918	
Madden, Florence Gertrude—English A.B. ( <i>Illinois Woman's Coll.</i> ), 1920	

<sup>1</sup>Candidate for professional degree in engineering.



Madden, Grace Erma—Education A.B., 1917		* Clinton
Marais, Jacobus Stephanus—Soils A.B. ( <i>Univ. of Cape of Good Hope</i> ), 1917		* † Transvaal, South Africa
Marino, Charles Anthony—Sociology A.B. ( <i>St. Viator Coll.</i> ), 1912	SS	Bourbonnais
Marloth, Werner Sigismund—Chemistry A.B. ( <i>Univ. of Cape Town</i> ), 1919	SS	* † Capetown, South Africa
Mathews, John Howard—Electrical Engineering B.S., M.S., 1913, 1914		* † Springfield
Matthews, Albert Otto—Chemistry A.B., M.S., 1918, 1920	SS	Washington, D. C.
Mattoon, Edwin Whitaker—Education A.B., 1915	SS	Champaign
May, Ethel Jane—History A.B., A.M. ( <i>Univ. of North Dakota</i> ), 1911, 1912		* † Downing, Wisconsin
Mayhew, Ray Lewis—Zoology B.S. ( <i>Iowa Wesleyan Coll.</i> ), 1914 A.M. ( <i>James Millikin Univ.</i> ), 1917	SS	* Urbana
Maynard, Milton Monroe—Education A.B. ( <i>Univ. of Oklahoma</i> ), 1908 A.M., 1920	SS	Monmouth
Menaul, Paul Lynn—Biological Chemistry A.B., A.M. ( <i>Univ. of New Mexico</i> ), 1915, 1917	SS	Stillwater, Oklahoma
Mensenkamp, Louis Edward—Mathematics A.B., 1916	SS	Freeport
Michaels, Ernest Edwin—Civil Engineering B.S. ( <i>South Dakota State Coll.</i> ), 1920		* † Watertown, South Dakota
Middleton, Errol Bathurst—Chemistry A.B., 1919		* † Victoria, Texas
Miller, Earl Joyce—Economics A.B. ( <i>Simpson Coll.</i> ), 1916		* † Indianola, Iowa
Miller, Harry Milton—Zoology B.S. ( <i>Ohio Wesleyan Univ.</i> ), 1917		* † Baltimore, Maryland
Milligan, Adah Elizabeth—English A.B. ( <i>Monmouth Coll.</i> ), 1914	SS	* Monmouth
Mills, Lindley Eva—Physical Chemistry A.B. ( <i>Miami Univ.</i> ), 1918		† Waynesville, Ohio
Mine, Yoshijiro—Architectural Design A.B. ( <i>Waseda Univ.</i> ), 1918		* Nagahama, Japan
Modesitt, Raymond Lyons—Mathematics A.B., A.M. ( <i>Indiana Univ.</i> ), 1908, 1909		† Atherton, Indiana
Moore, Harry Albert—Electrical Engineering B.S., 1910		* † Salt Lake City, Utah
Moose, Joe Eugene—Chemistry A.B. ( <i>Southern Methodist Univ.</i> ), 1917		* † Urbana
Morrison, Lethe Eleanor—Physiological Chemistry A.B., 1919	SS	* † Waterloo
Mosby, Benjamin Harrison—History A.B., 1909	SS	St. Louis, Missouri
Mullins, Edgar Raymond—Education A.B. ( <i>Indiana Univ.</i> ), 1917	SS	Flat Rock
Munn, Lottie Ella—Chemistry A.B. ( <i>Baldwin-Wallace Coll.</i> ), 1917		* † Grafton, Ohio
Naito, Yoso—Electrical Engineering Degree ( <i>Tohoku Imperial Univ.</i> ), 1913		* † Onoda, Japan
Navias, Louis—Chemistry B.S. ( <i>New York City Coll.</i> ), 1918	SS	* † Rochester, New York
Neff, Harold Alpha—History A.B., A.M., 1918, 1920	SS	Rochelle
Nelson, Milton Nels—Economics A.B., A.M., 1915, 1917	SS	* † Champaign
Nelson, Roy Andrew—Physics B.S. ( <i>Knox Coll.</i> ), 1916	SS	* † Joy
Nelson, Rudolph Stokes—Chemistry B.S., 1920		* † Rockford
Nelson, Severina Elaine—English A.B., 1918		* † Oak Park
Nevens, William Barbour—Animal Husbandry B.S. ( <i>Univ. of Wisconsin</i> ), 1914 M.S., 1917	SS	* † Urbana
Nevyas, Jacob—Chemistry A.B. ( <i>Swarthmore Coll.</i> ), 1919		* † West Chester, Pennsylvania
Nichols, Marvin Curtis—Theoretical and Applied Mechanics B.S. ( <i>Univ. of Texas</i> ), 1918		* † Denton, Texas
Nolan, Aretas Wilbur—Education M.S. ( <i>Univ. of West Virginia</i> ), 1911		† Scotland
North, Edward Oscar—Chemistry B.S. ( <i>Beloit Coll.</i> ), 1918		* † Rockford
Nuttall, Mrs. Olive Elizabeth—Botany B.S. ( <i>Illinois Wesleyan Univ.</i> ), 1920		† Champaign
O'Connor, Daniel Anthony—Economics A.B. ( <i>St. Viator Coll.</i> ), 1920	SS	Bourbonnais

\*Candidate for professional degree in engineering.

- Odell, Charles Watters—Education  
A.B., A.M. (*De Pauw Univ.*), 1911, 1912
- O'Donnell, Thomas Edward—History of Architecture  
B.S., 1913
- Oesterling, Henry Carl—English  
A.B. (*Westminster Coll.*), 1915
- Okushi, Eitaro—Reinforced Concrete  
Degree (*Tokyo Univ.*), 1907
- Orr, Clarence—Education  
A.B., 1914
- Osborn, John Balfour—Agronomy  
B.S. (*Transvaal Univ.*), 1920
- Otanes, Faustino Quesales—Entomology  
Work completed for degree
- Palmer, Charles Shattuck—Chemistry  
B.S., M.S., 1917, 1920
- Parkhurst, Amos James, Jr.—Chemistry  
A.B. (*John B. Stetson Univ.*), 1920
- Parks, Earl Erwin—Chemistry  
A.B. (*Oberlin Coll.*), 1918
- Pasmore, Daniel Frederick—French  
A.B. (*Albion Coll.*), 1913  
A.M., Ph.D., 1914, 1917
- Patterson, Cecil Frederick—Botany  
B.S. (*Univ. of Toronto*), 1918
- Pauli, Adolph Frederick—Latin  
A.B., A.M., 1916, 1917
- Peet, Charles Herman—Chemistry  
A.B. (*Hope Coll.*), 1914
- Petersen, Elmore—Economics  
A.B. (*Univ. of Chicago*), 1911  
A.M., 1920
- Peterson, Reuben Walter—Dairy Husbandry  
B.S., 1917
- Pettit, Harvey Pierson—Mathematics  
A.B. (*Kalamazoo Coll.*), 1914  
A.M. (*Univ. of Kentucky*), 1919
- Pieper, John—Agronomy  
B.S., M.S., 1917
- Pierce, John Stanton—Chemistry  
B.S. (*Georgetown Coll.*), 1920
- Plunkett, Orda Allen—Botany  
A.B. (*Wabash Coll.*), 1920
- Porter, Charley Lyman—Botany  
A.B., 1913
- Porter, Henry Van Arsdale—Education  
B.E. (*Illinois State Normal Univ.*), 1918
- Porter, Philip Kelsey—Chemistry  
A.B. (*Grinnell Coll.*), 1918
- Potter, Margaret Laura—Psychology  
A.B. (*Hiram Coll.*), 1915
- Powers, J. Orin—Education  
A.B., A.M., 1917, 1918
- Prante, Beulah Wise—English  
A.B., A.M., 1919, 1920
- Pringle, Helen Smith—English  
A.B., 1921
- Pullen, Amedee Raymond—Agronomy  
B.S. (*Transvaal Univ.*), 1920
- Quesenberry, Ruth Lucille—Education  
A.B., 1916
- Quick, Armand James—Organic Chemistry  
B.S., M.S. (*Univ. of Wisconsin*), 1918, 1919
- Raiford, Theodore Ernest—Mathematics  
B.S. (*Earlham Coll.*), 1914
- Raines, Lester Courtney—Psychology  
A.B., A.M., 1918, 1920
- Ramsay, Crawford John—Education  
A.B., 1917
- Randolph, John Wiloughby—Agronomy  
B.S., 1920
- Raphaelson, Sampson Miles—English  
A.B., 1917
- Rassweiler, Clifford Fred—Chemistry  
A.B. (*Univ. of Denver*), 1920
- Rauchenstein, Emil—Economics  
B.S. (*Univ. of Wisconsin*), 1911
- Reed, Cordelia—French  
A.B., A.M., 1918, 1919
- Reid, Clair—Mathematics  
A.B. (*Earlham Coll.*), 1918
- Reid, Dwight Logan—Education  
B.S., M.S. (*Univ. of Wisconsin*), 1915, 1918
- Rhode, Chris Simeon—Dairy Husbandry  
B.S. (*Purdue Univ.*), 1915
- SS. \* † *Urbana*
- \* † *Olney*
- \* † *Butler, Pennsylvania*
- \* † *Nagoya, Japan*
- SS † *Caillin*
- † *Johannesburg, South Africa*
- † *Nueva Ecija, Philippine Island*
- SS \* † *Urbana*
- SS \* *Port Orange, Florida*
- † *Norwalk, Ohio*
- SS *St. Paul, Minnesota*
- SS \* † *Walford, Ontario, Canada*
- \* † *Urbana*
- \* † *Grand Rapids, Michigan*
- SS *Boulder, Colorado*
- \* † *Chicago*
- \* † *Urbana*
- \* *Urbana*
- \* † *Calletsburg, Kentucky*
- \* † *Crawfordsville, Indiana*
- SS \* † *Urbana*
- SS *Athens*
- SS \* † *Stuart, Iowa*
- \* † *Rocky River, Ohio*
- SS *Urbana*
- \* † *Quincy*
- † *Normal*
- † *Transvaal, South Africa*
- SS *Chicago*
- SS \* † *Theresa, Wisconsin*
- SS *West Lafayette, Indiana*
- SS *Urbana*
- SS *Johnston City*
- \* *Onarga*
- \* † *Chicago*
- \* † *Lewisburg, Pennsylvania*
- \* † *Urbana*
- \* † *Covington, Indiana*
- SS *Richmond, Indiana*
- SS \* † *Urbana*
- \* *Brookston, Indiana*

- Rice, Nathan Lyman—Animal Husbandry  
125 hrs. (*Univ. of Illinois*)
- Rice, Warner Grenelle—English  
A.B., 1920
- Richmond, Thomas Everett—Agronomy  
A.B., M.S. (*Ohio State Univ.*), 1913, 1914
- Ringland, Mrs. Anna Day—English  
A.B. (*Illinois Coll.*), 1907  
A.M., 1908
- Ripley, Lewis Bradford—Entomology  
B.S. (*Trinity Coll.*), 1913  
M.S., 1916
- Robey, Lewis Cleon—Education  
A.B. (*Wabash Coll.*), 1903
- Rodewald, Charles William—Chemistry  
B.S., 1920
- Rodkey, Fred Stanley—History  
A.B., A.M., (*Univ. of Kansas*), 1917, 1918
- Romyn, Anton Eric—Agronomy  
B.S. (*Univ. of Toronto*), 1916  
M.S., 1920
- Root, Lucie Emma—Chemistry  
A.B. (*Oberlin Coll.*), 1917  
A.M., 1920
- Rosecrans, Crandall Zachariah—Mechanical Engineering  
B.S., 1919
- Ross, Harry Albert—Economics  
B.S., 1917
- Roth, Walter John—Economics  
B.S. (*Colorado Agricultural Coll.*), 1916  
B.S., 1920
- Ruehe, Harrison August—Bacteriology  
B.S., M.S., 1911, 1916
- Rutherford, Elizabeth Jane—Psychology  
A.B., 1919
- Saelhof, Clarence Charles—Pathology  
B.S., M.S. (*Univ. of Illinois, Coll. of Medicine*), 1919, 1920
- Sanders, William Howard—Experimental Physics  
A.B., 1920
- Santo, Hisata Ashbury—History  
A.B. (*De Pauw Univ.*), 1920
- Satterfield, Stacey Corbin—English  
A.B., (*Wheaton Coll.*), 1920
- Scaggs, Pearl Rose—Physics  
A.B., 1920
- Schlatter, Charles F—Economics  
B.S. (*South Dakota State Coll.*), 1916
- Schmaelzle, Otto Ignatius—Education  
B.S., 1920
- Schmidt, Clarence Carl—Physics  
A.B. (*Cornell Coll.*), 1917
- Schneider, Ralph Fred—Chemistry  
B.S., M.S., 1919, 1920
- Scholl, Carl A—Animal Husbandry  
B.S. (*Univ. of Alberta*), 1918
- Schramm, Laura May—History  
A.B. (*Lawrence Coll.*), 1920
- Schreiber, Nathan—French  
A.B., 1920
- Sears, Ogle Hesse—Agronomy  
B.S., 1914  
M.S. (*Purdue Univ.*), 1917
- Secord, Arthur Wellesley—English  
A.B. (*Greenville Coll.*), 1916  
A.M., 1920
- Segur, John Bartlett—Chemistry  
B.S., M.S., 1919, 1920
- Sergeant, Amy Gertrude—English  
A.B. (*Univ. of Michigan*), 1918
- Seybolt, Mrs. Ottilie—English  
A.B. (*Mt. Holyoke Coll.*), 1910  
A.M. (*Univ. of Wisconsin*), 1915
- Shaw, Hazel Yearsley—Political Science  
A.B., A.M., 1907, 1918
- Shelton, George Reed—Chemistry  
A.B., (*Univ. of Chicago*), 1912  
M.S., 1920
- Shelton, Wilma Loy—Education  
A.B., B.L.S., 1914, 1918
- Shepherd, Jean Charlotte—Chemistry  
A.B. (*Univ. of Montana*), 1919
- Short, Lloyd Milton—Political Science  
A.B. (*Knox Coll.*), 1919  
A.M., 1920
- † *Philo*
- \* † *Aurora*
- SS \* † *Urbana*
- \* † *Champaign*
- \* † *Glastonbury, Connecticut*
- SS *Taylorville*
- \* † *Rushville*
- \* † *Blue Rapids, Kansas*
- \* † *Transvaal, South Africa*
- \* † *Albion*
- \* † *Champaign*
- \* † *Urbana*
- \* † *Denver, Colorado*
- SS *Urbana*
- \* † *Oakland*
- SS *Chicago*
- SS \* † *La Crosse, Wisconsin*
- \* † *Okayama, Japan*
- \* † *Wheaton*
- SS *Lovington*
- \* † *Pulaski, Iowa*
- SS *Charleston*
- SS \* † *Fenton, Iowa*
- SS \* † *Wheatland, Iowa*
- † *Chicago*
- \* † *Platteville, Wisconsin*
- \* † *Chicago*
- \* † *Oblong*
- \* † *Nash, Oklahoma*
- SS *Waseka*
- \* † *Battle Creek, Michigan*
- SS *Urbana*
- † *Urbana*
- SS \* † *Urbana*
- SS *Terre Haute, Indiana*
- \* † *Hillsboro*
- \* † *Galesburg*

- Shriro, Joseph—Genetics  
B.S. (*Syracuse Univ.*), 1917
- Simons, Joseph—Physiological Chemistry  
B.S., 1919
- Singh, Charnjit—Physics  
B.S., 1917
- Sloan, William Finlay—Industrial Education  
B.S., 1916
- Snapp, Roscoe Raymond—Animal Husbandry  
A.B., B.S., 1913
- Snider, Howard John—Agronomy  
B.S., 1913
- Snider, Weems Vinton—Accountancy  
A.B. (*Baker Univ.*), 1917
- Somers, Russell Ivan—Organic Chemistry  
A.B., A.M., 1919, 1920
- Sontag, Raymond James—History  
B.S., 1920
- Soto, Rafael Arcangel—Spanish  
B.S., A.B., A.M., 1912, 1915, 1917
- Sparks, Keith Emanuel—Chemistry  
B.S., 1920
- Spencer, Cynthia Eugenia—Botany  
A.B., 1917
- Spencer, Victor Elwin—Chemistry  
B.S., 1915
- Sprohls, Luna Lenore—Chemistry  
A.B., 1919
- Stanton, William Macy—Architecture  
B.S., M.S., (*Univ. of Pennsylvania*), 1913, 1914
- Stark, Robert Walt—Agronomy  
B.S., 1895
- Steimley, Leonard Leo—Mathematics  
A.B., A.M. (*Indiana Univ.*), 1912, 1913  
Ph.D., 1920
- Stearn, Esther Wagner—Chemistry  
A.B., M.S., 1918, 1920
- Stevens, Roger Greenleaf—Chemistry  
B.S., 1920
- Steward, Helen Rebecca—History  
A.B. (*Blackburn Coll.*), 1908
- Stewart, Stanley Potter—Architecture  
B.Arch. (*Carnegie Inst. of Technology*), 1920
- Stickney, Elizabeth Easton—Mathematics  
A.B., A.M., (*Univ. of California*), 1916, 1917
- Stickney, Fenner Satterthwaite—Entomology  
B.S. (*Univ. of California*), 1916  
M.S., 1918
- Stillwell, Genevieve Maud—Education  
B.S., 1913
- Stirtz, Benjamin Andrew—Dairy Chemistry  
B.S., 1913
- Stoek, Leigh—Bacteriology  
A.B. (*Vassar Coll.*), 1919
- Storer, Walter Henry—French  
A.B., A.M., 1919, 1920
- Sweeney, Merle Arthur—English  
A.B. (*Hedding Coll.*), 1913  
A.M., 1916
- Swickard, Mabel Caroline—Mathematics  
A.B. (*Knox Coll.*), 1920
- Tani, Munco—Chemistry  
Degree (*Imperial Univ. of Kyoto*), 1915
- Taylor, Norris Onslow—Industrial Chemistry  
B.S., M.S., 1918, 1920
- Teagarden, Irene—Home Economics  
B.S. (*Univ. of Montana*), 1915
- Thomas, Lyell Jay—Zoology  
B.S. (*Fargo Coll.*), 1919
- Thomas, Royle Price—Agronomy  
B.S., 1919
- Thompson, David Hiram—Experimental Zoology  
B.S. (*Purdue Univ.*), 1919
- Thomson, Zada Goff—Education  
A.B., 1918
- Titchener, John Bradford—Latin  
A.B. (*Clark Coll.*), 1917
- Tozier, Roy Becker—Political Science  
A.B. (*Park Coll.*), 1919
- Townsend, Myron Thomas—Zoology  
B.S. (*Bates Coll.*), 1918
- Tracy, Paul Hubert—Dairy Chemistry  
B.S., 1920
- Trams, Albert Francis—English  
A.B., 1905
- \* † *Syracuse, New York*
- † *Chicago*
- \* † *Punjab, India*
- SS *Urbana*
- SS \* † *Findley*
- SS \* † *Amelia, Ohio*
- † *Holdenville, Oklahoma*
- SS *St. Joseph*
- \* † *Chicago*
- \* † *Sabana Grande, Porto Rico*
- \* † *Connersville, Indiana*
- SS \* *Champaign*
- † *Urbana*
- SS *Gibson City*
- \* † *Champaign*
- † *Urbana*
- \* † *Attica, Indiana*
- SS *Forest Park*
- \* † *Chicago*
- SS *Carlinville*
- \* † *Hamilton, Ohio*
- \* † *Monterey, California*
- \* † *Honolulu, Hawaii*
- SS *Urbana*
- SS \* † *Urbana*
- † *Urbana*
- \* † *Centralia*
- † *Champaign*
- \* † *Galesburg*
- SS *Yawata, Japan*
- SS *Geneseo*
- \* † *Missoula, Montana*
- SS \* † *Fargo, North Dakota*
- \* † *Sullivan, Indiana*
- SS \* *Dayton, Indiana*
- \* † *Urbana*
- \* † *Ithaca, New York*
- † *Kampsville*
- \* † *Brownville, Maine*
- \* † *Attica, Indiana*
- SS *Joliet*

- Troutman, William Chilton—English  
A.B., A.M., 1917, 1918
- Tubangui, Marcos Angeles—Zoology  
Degree (*Univ. of Philippines*), 1918
- Uchimura, Sebro—Theoretical and Applied Mechanics  
Degree (*Imperial Univ.*), 1920
- Udinski, William Phillip—Mathematics  
B.S., M.S., 1918, 1920
- Uplap, Govind Piraji—Chemistry  
B.S. (*Univ. of California*), 1919
- Uyei, Nao—Chemistry  
B.S. (*Oregon Agricultural Coll.*), 1916
- Valentine, Roger Wendell—Economics  
A.B. (*McKendree Coll.*), 1916
- Vanderveen, George—Organic Chemistry  
B.S. (*Univ. of Chicago*), 1917
- Vogele, Alfred Charles—Botany  
B.S., M.S., 1918, 1920
- Vollmer, Sylvia Maria—Romance Languages  
A.B. (*Univ. of California*), 1917
- Volz, Emil Conrad—Horticulture  
B.S. (*Michigan Agricultural Coll.*), 1914  
M.S. (*Cornell Univ.*), 1918
- Voorhees, Vanderveer—Chemistry  
131 hrs. (*Univ. of Illinois*)
- Vose, Veda Mae—Romance Languages  
A.B. (*Eureka Coll.*), 1918  
A.M., 1919
- Wagner, Wesley John—Mathematics  
A.B. (*Baldwin-Wallace Coll.*), 1918
- Wahlen, Frank Gustave—Mathematics  
B.S. (*Tufts Coll.*), 1917  
M.S., 1919
- Waldo, John Hardenbergh—Chemistry  
B.S., 1920
- Walker, Agnes Grieve—English  
A.B. (*Coe Coll.*), 1920
- Wallis, William—History  
B.S. (*Ohio Wesleyan Univ.*), 1894
- Walther, Albertine Marie—French  
Ph.B. (*Univ. of Chicago*), 1917
- Walton, De Forrest Darwin Lafayette—Romance Languages  
A.B. (*Univ. of Michigan*), 1915
- Wasserman, Max Judd—Economics  
A.B. (*Cornell Univ.*), 1918
- Watson, Jane Coulson—Spanish  
A.B., A.M., 1915, 1917
- Weinard, Alta Wells—Botany  
B.S. (*Univ. of Nebraska*), 1916
- Weinard, Frederick Francis—Botany  
B.S. A.M. (*Univ. of Nebraska*), 1916, 1917
- Weinhold, George Alfred—Chemistry  
B.S. (*Union Coll.*), 1920
- Weirick, Robert Bruce—English  
A.B. (*Colorado Coll.*), 1911  
A.M. (*Harvard Univ.*), 1913  
Ph.D., 1920
- Whetsler, Mary Marcella—English  
A.B. (*Rockford Coll.*), 1920
- White, Howard—Political Science  
A.B. (*Southwestern Coll.*), 1916  
A.M. (*Univ. of Kansas*), 1917
- Wildman, Ernest Atkins—Organic Chemistry  
B.S. (*Earlham Coll.*), 1913  
M.S., 1914
- Wilkins, Mathena Paul—Education  
A.B. (*Knox Coll.*), 1913
- Wilkinson, Cecil Herbert—Farm Crops  
B.S., 1920
- Williams, Lewis Ward—Education  
Ph.B. (*Hiram Coll.*), 1909  
A.M., 1918
- Williamson, Warren—Entomology  
A.B. (*Knox Coll.*), 1897  
A.M., 1911
- Wilson, Harry—Political Science  
A.B., 1920
- Wilson, Miriam Elaine—French  
A.B. (*Knox Coll.*), 1920
- Wilson, Thomas Adam—Chemistry  
A.B. (*Syracuse Univ.*), 1919
- Wilson, William Courtney—Chemistry  
B.S. (*Westminster Coll.*), 1917  
M.S., 1920
- Wimer, David Cleveland—Agronomy  
B.S., M.S. (*Pennsylvania State Coll.*), 1915, 1921
- \* † *Carl Junction, Missouri*
- \* *Pampanga, Philippine Islands*
- † *Osaka, Japan*
- SS \* † *Jersey City, New Jersey*
- \* † *Bombay, India*
- SS \* † *Ohyo, Japan*
- SS \* † *Mt. Vernon*
- \* † *Riverdale*
- SS *Urbana*
- \* † *Las Vegas, New Mexico*
- \* *Saginaw, Michigan*
- † *Champaign*
- SS *Irving*
- \* † *Elgin*
- SS \* † *Montpelier, Vermont*
- SS \* *Urbana*
- \* † *Rochelle*
- \* † *Urbana*
- \* † *Chicago*
- \* *Kalamazoo, Michigan*
- SS \* † *St. Louis, Missouri*
- \* † *Champaign*
- \* † *Alexandria, Nebraska*
- \* † *Lincoln, Nebraska*
- † *Schenectady, New York*
- SS *Urbana*
- \* † *Lincoln*
- \* † *Winfield, Kansas*
- SS \* † *Richmond, Indiana*
- SS *Roseville*
- \* † *Mt. Carmel*
- \* † *Champaign*
- \* † *Urbana*
- \* † *Champaign*
- \* † *Knoxville*
- \* † *Middletown, New York*
- SS \* † *New Wilmington, Pennsylvania*
- † *Quarryville, Pennsylvania*

- Wolter, Herbert Frederick—Animal Husbandry  
     B.S., 1918  
 Woodard, John—Soils  
     B.S., A.M. (*Univ. of Missouri*), 1910, 1914  
 Worsham, Walter Boatman—Physics  
     A.B., 1912  
 Wright, Allan Thurman—English  
     A.B., 1913  
 Wu, Chenfu Francis—Zoology  
     B.S., M.A. (*Soochow Univ.*), 1917, 1919  
 Wylie, Charles Clayton—Astronomy  
     A.B. (*Park Coll.*), 1908  
     A.M. (*Unit of Missouri*), 1912  
 Yancey, Harry Fagan—Chemistry  
     A.B., A.M. (*Unit of Missouri*), 1913, 1915  
 Yntema, Leonard Francis—Chemistry  
     A.B. (*Hope Coll.*), 1915  
     A.M., 1917  
 Yoshida, Tokujiro—Theoretical and Applied Mechanics  
     Degree (*Tokyo Univ.*), 1912
- \* Danville  
 \* † Champaign  
 \* † Paris  
 \* † Franklin  
 \* Shanghai, China  
 SS \* † Marissa  
 \* † Urbana  
 \* † Holland, Michigan  
 \* Fukuoka, Japan

# UNDERGRADUATE AND PROFESSIONAL COLLEGES AND SCHOOLS IN URBANA, 1920-1921

(Including the Colleges of Liberal Arts and Sciences, Commerce and Business Administration, Education, Engineering, Agriculture, and Law,  
the Library School, and the School of Music)

## ABBREVIATIONS

### Curriculums

Accy	Accountancy	Law	Law
Agr	General Agriculture	LawP	Law Preparatory
AE	Architectural Engineering	LAS	General Liberal Arts and Sciences
Arch	Architecture	LG	Landscape Gardening
Ath	Athletic Coaching	Lib	Library Science
Bank	Banking	MedP	Medical Preparatory
Bus	General Business	ME	Mechanical Engineering
C&L	Commerce and Law	MinE	Mining Engineering
CCS	Commercial and Civic Secretaries	MSE	Municipal and Sanitary Engineering
CE	Civil Engineering	Mus	Music
CerE	Ceramic Engineering	RA	Railway Administration
Chem	Chemistry	RCE	Railway Civil Engineering
ChE	Chemical Engineering	REE	Railway Electrical Engineering
ComT	Commercial Teachers	RME	Railway Mechanical Engineering
EcEnt	Economic Entomology	RT	Railway Transportation
Ed	General Education	SHAAgr	Smith-Hughes Teacher Training in Agriculture, College of Agriculture
EE	Electrical Engineering	SHAEd	Smith-Hughes Teacher Training in Agriculture, College of Education
EngPh	General Engineering Physics	SHHEEd	Smith-Hughes Teacher Training in Home Economics, College of Education
Eng vsp <sup>1</sup>	Special Vocational Curriculum in Engineering	SHHEAgr	Smith-Hughes Teacher Training in Home Economics, College of Agriculture
Flor	Floriculture	Sp	Special
FOM	Farm Organization and Management	SS	Summer Session, 1920
ForC	Foreign Commerce	Ssp <sup>2</sup>	Soldier Special
HEAgr	Home Economics, Agriculture	Voc <sup>4</sup>	Special Vocational Curriculum in Agriculture
HELAS	Home Economics, Liberal Arts and Sciences	Vsp <sup>1</sup>	Vocational Special
IndA	Industrial Administration		
IndEd	Industrial Education		
Ins	Insurance		
Ir <sup>3</sup>	Irregular		
Jnl	Journalism		

NAME	CURRICULUMS	CREDIT HOURS <sup>5</sup>	RESIDENCE
Aamold, Walter	SS		Baker, Oregon
Abbitt, Macon Armistead	Arch	66½	* † Hopkinsville, Kentucky
Abbott, Dorothy Caroline	LAS	22	* † Chicago
Abbott, Edison William	Bus	62½	* † Chandlerville
Abbott, Florence Charlotte	Mus		* † Malden, Massachusetts
Abbott, George Robert	Bus	55	* † Charleston
Abbott, Ira Richmond	EE	33	* † Mason City
Abbott, Josephine Eleanor	LAS	68½	* † Chicago
Abel, Wilfred Loren	SS	7½	* † Louisville
Abernathy, Mrs. Kathleen Roberts, A.B., 1906	SS	151½	Champaign
Abhyankar, Vishvanath Sitaram	LG		* † Thana, India
Abney, Charles Lyndorf	CerE		* † Harrisburg
Abney, Willard Harold	ForC	69½	* † Harrisburg
Abraham, Effie Gale A.B., 1913	Lib	33	* † Muncie, Indiana
Abraham, Leonard Gladson	EE	69½	* † Watson
Abraham, Robert	ME	34½	* † Rockford
Abrahams, Jerome Louis	LawP		* † Chicago
Abrahamson, Gladys Irene	LAS	15	* † Chicago
Abramson, Roy Theodore	Agr	50½	* † Wilmette
Abt, Burl Raymond	Bus	71	* † Chicago
Accioly, Ulysses Consancao	Agr		* † Bahia, Brazil

<sup>1</sup>Disabled soldiers and sailors under the auspices of the Federal Board for Vocational Education.

<sup>2</sup>Students holding bachelor's degrees but taking undergraduate work.

<sup>3</sup>Honorably discharged soldiers and sailors not qualified for matriculation and under 21 years of age, admitted on the basis of a personal interview with a faculty committee and of passing the Army Intelligence Test (under the procedure suggested by the United States Commissioner of Education).

<sup>4</sup>Sub-collegiate, conducted for disabled soldiers and sailors under the auspices of the Federal Board for Vocational Education.

<sup>5</sup>Number of credit hours computed as of October 1, 1920, to show the student's class standing during the year. In the case of students in the College of Law and the Library School, only those credits that count towards the LL.B. and B.L.S. degrees are chosen.

\* † Attendance first semester indicated by the asterisk (\*); second semester by the dagger (†).

Ackerman, Paul	Bus		* † Oak Park
Ackley, Alberta Mildred	LAS		* † Odell
Acton, Russell Dow	ChE	2	* † Danville
Adair, Genevieve Colista	HELAS	27	* † Stronghurst
Adair, William Robert	Agr	17	* † Stronghurst
Adamek, George Frank	Accy	42½	* † Davenport, Iowa
Adams, Alice Elizabeth	HEAgr		* † Evanston
Adams, Alma Ione	HELAS	33	* † East Moline
Adams, Edna Beatrice	LAS		* † Benton
Adams, Edith Florence	LAS sp		* † Chicago
Adams, Edwin Lee	AE	28	* † Brazil, Indiana
Adams, Jessie Ruth	HELAS	32	* † Princeton
Adams, John David	Agr	14	* † Chicago
Adams, John Philip	Bus		* † Fairfield
Adams, Marilla Ellen	Jnl	33	* † Decatur
Adams, Marshall Berry	Agr		* † Langdon, Kansas
Adams, Paul Gilbert	Agr	133¾	* † Princeton
Adams, Varian Baltzell	Law	30	* † Chicago
Adams, Walter Glenn	MinE	57	* † Kewanee
Aderton, Paul Latimer	Voc esp (SS)	36	* † Hardin
Adler, Maurice	Chem	38	* † St. Louis, Missouri
Adler, William Henry	Bus		* † Chicago
Adsit, Gaylord De Witt	LAS	32	* † Wellington
Agle, Maurine Theressa	LAS	32½	* † Bloomington
Agle, Myrtle Fern	LAS		* † Bloomington
Agnew, Charles Henry	SS	5	* † Waukesha, Wisconsin
Agnew, John Maurice	EE	33	* † Clinton, Indiana
Agnew, Oliver Lyle	Agr	22½	* † Wayne
Aguilar, Juan Cruz	MinE		* † Tampico, Mexico
Aguinaldo, Carmen Rosario	SS	33½	* † Kavit, P. I.
Ahlenius, Ruth Margaret	LAS	61½	* † Chicago
Aiken, Joseph Eugene	EE	75	* † Benton
Airey, Shea Wilson	EE		* † Chicago
Aiston, Louise Matilda	LAS		* † Chicago
Aitken, Coleita	Mus (SS)	69½	* † Urbana
Aitken, Louis Fred	ChE	32	* † East St. Louis
Aitkin, Frank Harley	Bus	36	* † Sand Springs, Oklahoma
Alanen, Arvid Michael	ME	36	* † Ishpeming, Michigan
Alberhasky, Mary Helen	LAS		* † Woodstock
Albershardt, Anna Mae	LAS		* † Tipton, Indiana
Albershardt, Frederick Conrad	ForC	66½	* † Tipton, Indiana
Alberstett, Vernon Roy	Bus	40	* † Rockford
Albert, Samuel Raymond	CE	39½	* † Freeport
Alberts, Dewey Verne	ChE	101	* † Lincoln
Albertsen, Ernest Justin	Bus		* † Delavan
Albertson, Roy Arthur	AE	41	* † Chicago
Albrecht, Marcus Fred	Agr		* † Dundee
Alcorn, Kent Archibald	MedP	30½	* † Chicago
Aldrich, Dorothy Frances	LAS sp		* † Bloomington
Aldrich, Eugene Elliot	Ath	35	* † Duluth, Minnesota
Aldrich, Richard Lewis	SS	124½	* † Earlville
Alexander, John Alva, A.B., A.M., 1916, 1919	SS		* † Keithsburg
Alexander, Louis Julian	Bus	33	* † Little Rock, Arkansas
Alford, Frank Lambert	MedP	37½	* † Cropsey
Alford, James Donald	Bus		* † Goshen, Indiana
Aliber, John Amos	SS	5½	* † Saugatuck, Michigan
Alicante, Mrs. Augusta Ernestine	LAS sp		* † Urbana
Alison, Lloyd Cicero Wallace	LawP	30	* † Alvin
Alleman, Martin Benjamin	Agr	77½	* † Champaign
Alleman, Merle Margarite	LAS (SS)	33	* † Champaign
Allen, Carl Elmer	SS	85½	* † St. Louis, Missouri
Allen, Charles Moore	Agr	50	* † Charleston
Allen, Donald Ray	SS	46	* † Chicago
Allen, Eloise Grace	HEAgr	29	* † Delavan
Allen, Herbert Warren	Bus		* † Indianapolis, Indiana
Allen, Lucile	HEAgr	164½	* † Greencastle, Indiana
Allen, Paul Edward	C&L	32	* † Newman
Allen, Ralph B.	Bus	32	* † Broadlands
Allen, Robert Joseph	LAS	48½	* † Charleston
Allen, Theodore Raymond	Agr	118½	* † Delavan
Allen, Wilton Theodore	EE	28½	* † Chicago
Allen, Zoe Oliver	SS		* † Mt. Erie
Allison, Arthur R.	AE	46	* † Palisades, Colorado
Allison, Dale Omelia	Bus		* † Assumption
Allison, Everett Harmon	MinE	79½	* † East St. Louis
Allman, John Claude	CE	109	* † Crown Point, Indiana
Allott, Clyde Walter	ME	32	* † Wilmington
Allyn, Hester Ann, A.B., 1917	Mus sp	131	* † Fergus, Montana
Allyn, Norman Barnes	Ins (SS)	94	* † Springfield
Almberg, Iver Theodore	ME	66½	* † Chicago
Aiseth, Hilda Josephine	Ltb sp	40½	* † Lake Preston, South Dakota
Alsup, Robert Errett	REE	2½	* † Bristow, Oklahoma
Alten, Anzolette	LAS		* † Harvey
Alter, Franklin Allen	ME	69½	* † Davenport, Iowa



Alvord, Ben Finley	Agr	42	* † Noble
Alward, Cutler Kenneth	Bus	70	* † Moweaqua
Alwood, Fred Ward, B.S., 1920	SS	124½	* † Clinton
Alyea, Paul Edgar	Ins	29	* † Indianapolis, Indiana
Amacher, Vern David	SS	30½	* † Strawn
Ames, George Richard	Bus		* † Belvidere
Ammon, Ralph E	Agr (SS)	53	* † Carmi
Amory, Eugene Ernst, Jr.	Bus	4	* † Chicago
Amsbary, Addie Elizabeth	LAS	99½	* † Champaign
Amsbary, Frank Clifford, Jr.	ME	23½	* † Champaign
Anderson, Anne	SS	3	* † Anna
Anderson, Donald Sutherland	Bus	68	* † Chicago
Anderson, Elizabeth Carolyn	HEAgr	99½	* † Elgin
Anderson, Elwin August	CE	41½	* † Elgin
Anderson, Eunice Vivian	SS	7½	* † Albion
Anderson, Everett Leroy	Bus	28	* † Rockford
Anderson, Floyd Graham	Agr		* † Pinckneyville
Anderson, George William	IndA	31	* † Heyworth
Anderson, Harold Elmer	ChE	35	* † Chicago
Anderson, Harold Emil	Bus		* † Chicago
Anderson, Harry Drake	Law	44½	* † Pittsfield
Anderson, Mrs. Helen Root	SS	5	* † Charleston
Anderson, Ida May	SS	5	* † Sparta
Anderson, John Arthur	Chem	69½	* † Chicago
Anderson, John William Clarice	LAS		* † Buda
Anderson, Joshua Clayton	Agr sp	137	* † Williamsport, Indiana
Anderson, Kenneth Gates	Bus	5	* † LaGrange
Anderson, Lawrence Bernard	Bus (SS)	76	* † East Lynn
Anderson, Loudene	Jnl	65	* † Creal Springs
Anderson, Maurice Franklin	MinE		* † Pinckneyville
Anderson, May Janette	LAS	59	* † Wheaton
Anderson, Normah Charlotte	Bus		* † Rockford
Anderson, Norman Duane	SS	8½	* † Chicago
Anderson, Paul August Cornelius	Bus	79½	* † Chicago
Anderson, Paul Theodore	Bus	31	* † Rock Island
Anderson, Raymond Rueven	CE	35	* † Kewanee
Anderson, Roland Lee	Bus	4½	* † Ashland
Anderson, Ruth Elizabeth	HEAgr	48	* † Buda
Anderson, Walter Theodore	CE	34	* † Ottawa
Anderson, Walter Wilford	Bus	32½	* † Huron, South Dakota
Anderson, Wesley Francis	Bus	32	* † Sycamore
Anderson, William Bernard	ChE	3	* † St. Louis, Missouri
Anderson, William Donald	Bus	54½	* † Monticello
Anderson, Winfield Scott	EE (SS)	110½	* † Anna
Andren, Inez Dorothy	Bus	16	* † Gary, Indiana
Andresen, Ollene Gertrude	LAS	32	* † Elgin
Andrew, Calvin Clayton	Arch		* † Peoria
Andrews, Elizabeth, A.B., 1920	SS	130½	* † Urbana
Andrews, Frank Monroe	ME	72½	* † Champaign
Andrews, Helen Elizabeth	LAS	66	* † St. Louis, Missouri
Andrews, Howard Wilbert	Bus	56	* † Pontiac
Andrews, Kenneth Anton	ForC	35½	* † Quincy
Andy, Philip	SS	25	* † Champaign
Anell, Esther Willard, A.B., 1919	Lib		* † Urbana
Angell, Charles Frederick	SS	8½	* † Battle Creek, Michigan
Angier, Milton Sanford	EE	7½	* † Beardstown
Anguelles, Francisco Leandro	Bus		* † Balangas, Philippine Islands
Ankeny, Marjorie Luella	HEAgr	32	* † Davenport, Iowa
Anway, Lellwyn Raymond	Ath	8	* † Kalamazoo, Michigan
Apostoloff, Constantine	Law		* † Urbana
Appel, Robert Everett	EE	74½	* † Springfield
Appelgran, Clarence Oliver	SS	148½	* † Chicago
Applegate, Gladys Irene	Chem	39	* † Western Springs
Applegate, Robert Bugby	ME		* † Western Springs
Appling, John William	Chem (SS)	105½	* † St. Joseph
Aquart, Arthur Vincent	EE		* † Oak Park
Archbold, Alice Josephine	LAS		* † Chicago
Archbold, Harold Herbert	IndA (SS)	102	* † Brockfield
Archer, Marjorie Edith	LAS		* † Streator
Arends, Wilmer Ruppel	Agr	30	* † Melvin
Arensman, Jessie Marie	HELAS		* † Metropolis
Arie, Janet May, A.B., 1911	Lib		* † Wataga
Arie, Marian Elizabeth	LAS		* † Champaign
Armantrout, Ottis Myers	AE		* † Crasfordville, Indiana
Armantrout, William Everette	Arch		* † Rossville
Armes, John Eugene	Bus (SS)	93½	* † Urbana
Armistead, Ermah Lucile	HEAgr (SS)	22	* † Indianapolis, Indiana
Armour, Dorothy Marion	Chem	106	* † Rockford
Arms, Mrs. Marie Dooley	Mus		* † Urbana
Arms, Ray Walter, E.M., 1912	Mus irr		* † Chicago
Armstrong, Frederick Carroll	EE	105½	* † Lincoln
Armstrong, Grace Wilda	SHA Agr	33	* † Urbana
Armstrong, Juliette Adams	LAS		* † Chicago
Armstrong, Mrs. Mabel Gertrude	Mus sp		* † Urbana
Armstrong, Mary Olivia	HEAgr	29	* † Park Ridge
Armstrong, Ray Conway	MedP	45	* † Mound City

Armstrong, Thomas Hunter	Law	60	* † Mound City
Armstrong, Virginia Irene	LAS		* † Chicago
Armstrong, William Young	ChE	76½	* † Milwaukee, Wisconsin
Arndt, Raymond Henry	ME	41	* † Rock Island
Arning, Henry Urban	EE		* † Quincy
Arnold, Ambrose Allen	ChE	102	* † Palmerton, Pennsylvania
Arnold, Charles Vincent	Ag	108	* † LaGrange
Arnold, Dean Moxley	AE	117	* † Ironton, Pennsylvania
Arnold, James Walter	SS	7½	* † Menomonee Falls, Wisconsin
Arnold, James William	Bus		* † Arnold
Arnold, John William	LAS (SS)	106	* † Little Rock, Arkansas
Arnold, Orville Dayton	Law		* † Browning
Arnold, Russell Ellsworth	CerE	70½	* † Chicago
Arnvig, Sigurd	Arch sp (SS)	8	* † Elkhorn, Iowa
Arrasmith, William Strudwick	Arch	121	* † Hillsboro, North Carolina
Arrau, Miguel Angel	EE (SS)	39	* † Santiago, Chile
Arter, Eugenia Jenkins	LAS	66	* † Danville
Arter, Virginia Marguerite	Accey		* † Danville
Ascher, Vernon William	Bus		* † Freeport
Ashtbaugh, Walter Wyatt Rose	Ag	34	* † Dunlap
Ashby, Virgil Edgar	Bus	21	* † Kansas
Ashcraft, Julian Holley	SS	3	* † Westfield, Pennsylvania
Asher, Ollie Martin	LAS		* † Champaign
Askew, Vernon Byron	SS	3	* † Donoran
Askey, Russel Orrin	EE	7	* † Orangeville
Asmus, Edna Ida	Jnl	42	* † Chicago
Asmus, Edward William John	C&L	33	* † Chicago
Aspern, Janet Louise	LAS		* † Champaign
Astell, Sarah Lucy	HEAgr		* † Champaign
Atherton, Harold Gregory	Arch	54½	* † Anderson, Indiana
Atkinson, George Lee	EE		* † Little Rock, Arkansas
Atkinson, Graeme Lindley	ChE	34	* † Wichita Falls, Texas
Atkinson, Helen	SS	5	* † Hammond, Indiana
Atkinson, John Williams	LAS		* † Wichita Falls, Texas
Atkinson, Joseph Elliot	Bus		* † Champaign
Atkinson, Thelma Marie	Jnl (SS)	52½	* † Urbana
Atkinson, Earl Walston	EE	67½	* † Pana
Atwater, Daniel Carey	EE	43	* † Rochelle
Atwell, Donald Burgess	CerE	71	* † Nacogdoches, Texas
Atwood, Carl Edward	LAS	59½	* † Oak Park
Atwood, Clarence Newell	Ag		* † Grand Ridge
Atwood, Eda Mildred	HEAgr		* † Grand Ridge
Auorey, Frederick Lee	Bus		* † El Paso
Augur, Allison Leverett	ME		* † Chicago
Augustine, Melville	Bus	14½	* † Ladora, Iowa
Augustine, Robertson Howard Milton	RT		* † Champaign
Ausbury, Harold Gordon	Ag	30	* † Macomb
Austin, James William	C&L (SS)	64½	* † Effingham
Austin, Thomas Edward	Bus	25	* † Effingham
Axton, Alice Lorretta	LAS	60	* † Mt. Morris
Ayers, Donald Jean	ME	34½	* † Chicago
Ayres, Howard Ransome	MedP	31	* † New Lenox
Ayres, Robert Brent	Bus		* † Hinsdale
Babb, Elizabeth Margaret	LAS		* † Champaign
Babb, Howard John	Bus	38	* † Champaign
Babeock, Margaret Jane	Mus (SS)	96½	* † Rensselaer, Indiana
Babaian, Rose Katherine	HELAS		* † Turlock, California
Bacous, Joseph Harold	LAS		* † Kewanee
Bach, Ferdinand Harold	Bus	42½	* † Terre Haute, Indiana
Bachman, George Christian	Jnl sp	8	* † Niles, Michigan
Bacon, Edward McKinley	Law (SS)		* † Hopkinsville, Kentucky
Bacon, Marie Louise	Jnl	22	* † Lilly
Baer, Adeline Harris Harriet	Bus	30	* † Chicago
Baethke, Jerome William	LAS		* † Glen Ellyn
Baewerly, Elizabeth Frederick	LAS		* † Louisville, Kentucky
Bagley, Albert Frank	MedP		* † Kansas City, Missouri
Bahlman, William John	LG	49½	* † Goodenow
Baiano, Salvini James	LAS		* † Los Angeles, California
Bailey, Carter	Bus		* † Chicago
Bailey, Charles Wilbur, Jr.	Bus		* † Geneva
Bailey, Dale Bedford	Ag	25	* † Coal Valley
Bailey, Hamilton Reinard	Jnl (SS)	76½	* † Urbana
Bailey, Harold Ogden	Bus		* † Muskegon, Michigan
Bailey, Harvey Hamilton	ME	28	* † Moline
Bailey, Howard Mitchell	EE		* † Olney
Bailey, Robert Gilman	Ag	63	* † Delavan
Bailey, Ruth Maria	LAS	67	* † Los Angeles, California
Bailie, Violet Willard	CCS	7	* † Urbana
Bainum, Pauline Elizabeth	LAS		* † Champaign
Baird, Frieda	Bus	66½	* † Jamaica
Baird, George Dewey	Ag	43	* † Rock Island
Baird, George Malcolm	Bus	61½	* † Evansville, Indiana
Baird, Gordon Franklin	IndA		* † Champaign
Baird, Jack Pierson	Bus	32	* † Evansville, Indiana
Baird, Robert Leslie, Jr.	Bus	39½	* † Park Ridge
Bairstow, Jack Edward	Bus		* † Waukegan

Bake, Rosa	LAS	31	* † Terre Haute, Indiana
Baker, Donald Oliver	CE		* † Anna
Baker, Earl Bogges	CerE	122	* † Fairmount
Baker, Ebenezer Daniel	LAS sp		† Kalamazoo City, India
Baker, Felicie Rosa	SS	9	† New Orleans
Baker, Frank Melsome, Jr.	Bus	31	* † Chicago
Baker, Glen Everett	Bus	22	* † Ottawa
Baker, Harold Griffith	Law	42	* † East St. Louis
Baker, John Babcock	ChE (SS)	111½	* † Springfield
Baker, John D	ME	24	* † Sumner
Baker, Lloyd Brown	EE	69	* † Riverside
Baker, Louise	Ed	95½	* † Veedersburg, Indiana
Baker, Marie Janet	Bus	29	* † Harvey
Baker, Mildred Catherine	CCS		* † Chicago
Baker, Robert Everette	Agr	77	* † Brocton
Baker, Samuel Harry, Jr.	C&L (SS)	13½	* † Cerro Gordo
Baker, Sewell Ercy	SS	7½	† Sheridan, Indiana
Baker, Sophia	LAS	63	* † Marion
Baker, Virginia Katharyn	LAS		* † Urbana
Baker, Wilbert James	Chem	60½	* † Princeville
Bakko, George Otis	C&L		* † Sterling, Colorado
Bakke, Walter Bennie	Ath	27	* † Sterling, Colorado
Balazs, Charles Samuel	EE		* † Chicago
Balbach, Harold Edward	Agr	35	* † Chenoa
Balch, Avery D	EE		* † Oak Park
Balbridge, Ernest Barber	IndA	32	* † Dayton, Ohio
Baldus, Edgar Alloy	EE		* † Belleville
Baldwin, Beulah Helen	LAS	63½	* † Centralia
Baldwin, Grace Howard	HELAS	64½	* † Urbana
Baldwin, James Howell	Agr sp		* † Windfall, Indiana
Baldwin, John Harold	Bus		* † Chatsworth
Baldwin, Kenneth Denison Holmes	Agr	37	* † Peoria
Baldwin, Paul Munn	ChE		† Joliet
Baldwin, Stephen Glidden	Bus	16	* † Sidell
Baldwin, William Robert	RA	29	* † Dayton, Ohio
Bale, Anna Meta	LAS	64	* † Joliet
Bale, Henry Schrader	Bus	27	* † Joliet
Ball, John Maurice	Med P	26½	* † Rushville
Bales, Marian Josephine	LAS	65	* † Dane, Indiana
Bales, William Pearly	SS	8½	* † Moshien, Tennessee
Ball, Lyle Elwin	EE	33	* † West Chicago
Ball, Ralph Wilson	Agr		* † Virden
Ball, Wilfrid Randolph	AE	28	* † Hartford, Connecticut
Ballard, Edward Milton	SS	120%	* † Berwyn
Ballard, Randall Clarence	EE		* † Chicago
Ballentine, Earl Wesley	EE		* † Rockford
Bamberger, Alvena	LAS (SS)	96½	* † Champaign
Ballinger, Florence W	LAS		* † Chicago
Banashek, Julius	Accy (SS)	76½	* † St. Louis, Missouri
Bamberger, Ruth Louise	Mus		* † Terre Haute, Indiana
Banch, Wilhelmina Johanna	SS	8	* † Pittsfield
Bancroft, Burton Richard	MedP	30	* † Mt. Carroll
Bancroft, Ruth Marguerite	SS	8½	* † Jacksonville
Bandy, Keith Kenneth	MedP	32	* † White Hall
Banker, Edward Hamilton, Jr.	Bus	33	* † Chicago
Banks, James Jackson	Bus	32½	* † Fargo, North Dakota
Bankson, Clyde Russell	Law	45½	* † Pulaski
Banta, Elizabeth Blanche	LAS	28	* † Low Point
Banta, Wilber	LAS	3	* † Chrisman
Banton, Huston	MedP	46	* † Mt. Zion
Banton, Oliver Terrell	Bus	79	* † Mt. Zion
Barbe, Bernard	ChE	21½	* † Chicago
Barbee, Leroy	Arch sp	8	* † Hico, Texas
Barber, Albert Carlos	MedP	44	* † Toledo, Ohio
Barber, Cecil Frederick	MedP		* † Rochester, New York
Barber, Fernald Keith	Agr		* † LaFox
Barber, Marion Ruth	LAS		* † Rockford
Barber, William	Bus	51½	* † Decatur
Barbre, Robert Owen	Agr		* † Taylorville
Barcume, Lyle Nelson	Arch	73½	* † Los Angeles, California
Barcus, Gertrude Louise	Agr sp		* † Crawfordsville, Indiana
Barcus, Glenn Oscar	EE		* † Genoa
Bardwell, William Utley	C&L	34	* † Dixon
Barenfanger, Bessie Louise	Mus	25	* † Salem
Barker, Annie Eliza, A.B., 1920	Mus irr		* † Bondville
Barker, Ernest Clyde	Bus	28	* † Mazon
Barker, Lucille Miner	LAS	61	* † Sparta
Barkley, Emma Elizabeth	SHHEED	63	* † Carlyle
Barkow, Milton Frederick	IndA sp		* † Chicago
Barla, Simon Joseph	EE	23	* † Seneca
Barlow, Edwin W	Agr		* † Dixon
Barnard, Alger Sidney	ME	33	* † Naperville
Barnard, Dorothy Lucile	FOM		† San Pierre, Indiana
Barnard, Herbert Eleroy	CE		* † St. Louis, Missouri
Barnard, Randolph Hundley	Bus	95	* † St. Louis, Missouri
Barnes, Atala Ann	SS	22½	† Urbana

Barnes, Esther Elizabeth	LG	98	* † Urbana
Barnes, Harvey Buxton	Ath		* † Oakland, California
Barnes, Otis Avery, B.S., M.S., 1916, 1918	Mus irr		* † Champaign
Barnes, Paul Royden	MedP		* † Joliet
Barnes, Robert Avery	LawP	34	* † Washburn
Barnett, Albert Harold	ChE	60 <sup>2</sup> / <sub>3</sub>	* † Chicago
Barnett, Arthur Ray	C&L	60 <sup>1</sup> / <sub>2</sub>	* † White Hall
Barnett, Clarence Edward	ChE	35	* † Pana
Barnett, Irving Wood	Bus	59 <sup>1</sup> / <sub>2</sub>	* † Chicago
Barnett, Mary Lorene	LAS	67 <sup>1</sup> / <sub>2</sub>	* † Mattoon
Barns, Everal Victor	ME		* † Chicago
Barousse, Ignacio Carlos	AE	76 <sup>1</sup> / <sub>2</sub>	* † Mexico City, Mexico
Barr, Andrew, Jr.	Accy	35	* † Urbana
Barr, Harriett Dell	LAS sp		* † Paris
Barr, Harry Andrew	Law	30	* † Aledo
Barr, Jollie John	Ath		* † Tipton, Indiana
Barr, Laurinda	SS	6 <sup>1</sup> / <sub>2</sub>	* † Taylorville
Barr, Myrtle Garnett	LAS	53	* † Brazil, Indiana
Barr, Norman Burton	Agr	30	* † Chicago
Barr, Oliver Milton, Jr.	Arch	52 <sup>1</sup> / <sub>2</sub>	* † River Forest
Barr, Robert Abraham	EE		* † Centralia
Barrett, Harold Truman	EE	41	* † Chicago
Barrett, Helen Elizabeth	MedP		* † Chicago
Barrett, Isaac Beamer	Agr	59 <sup>1</sup> / <sub>2</sub>	* † Elmhurst
Barrett, John Carl	ForC	24	* † Neoga
Barrett, Marguerite Lillian	LAS	41	* † Oak Park
Barrett, Pearl Alice	LAS	31	* † Princeville
Barrick, John Dean	LAS	60 <sup>1</sup> / <sub>2</sub>	* † Canton
Barrow, William Haley	Agr	4	* † Tipton
Barry, Jennie Eulalia, A.B., 1918	LAS irr		* † Chodhouse
Barry, Nellie Lee	Bus	35 <sup>1</sup> / <sub>2</sub>	* † Champaign
Barry, Walter Andreas	IndA	76	* † Champaign
Bartholomew, Maynard Todd	ME	96 <sup>1</sup> / <sub>2</sub>	* † Wilmette
Bartle, George Jacob	Bus	63	* † Chicago
Bartle, Nancy Helen	LAS		* † Perry
Bartlett, Charles Henry	CE	115 <sup>1</sup> / <sub>2</sub>	* † Pinckneyville
Bartlett, Dorothy Eleanor	CCS		* † Chicago
Bartlett, Irving Gayle	Bus	28 <sup>1</sup> / <sub>2</sub>	* † Rockford
Bartley, Elias Russell	IndA		* † Lafayette, Indiana
Bartling, Edwin Phillip	Bus	55	* † Waterloo, Iowa
Barton, Lester Leslie	Bus	55	* † Chicago
Bash, Daniel Ketter	ME	37	* † Peoria
Bash, Florence Anne	LAS	99 <sup>1</sup> / <sub>2</sub>	* † Indianapolis, Indiana
Bash, Neva Mary	SS	7	* † Champaign
Baskerville, Frances Angela	LAS	57	* † Champaign
Bass, Fred, B.S., 1920	SS	142 <sup>1</sup> / <sub>2</sub>	* † Joliet
Bass, Hyman	LAS	31	* † Armstrong
Bass, Irene	Bus	66 <sup>1</sup> / <sub>2</sub>	* † Chicago
Bass, Jewell Lee	MedP		* † Armstrong
Bass, Leo Ossian	Agr	45 <sup>1</sup> / <sub>2</sub>	* † Makanda
Bass, Perkins Burnham, Jr.	IndA	68 <sup>1</sup> / <sub>2</sub>	* † Walnut
Bassett, Vera Vivian	LAS (SS)	72 <sup>1</sup> / <sub>2</sub>	* † Evanston
Bateman, Elwood Townsend	Agr		* † Champaign
Bates, Gardner Oatman	ME		* † Foosland
Bates, John Blinn	IndA	47 <sup>1</sup> / <sub>2</sub>	* † Chicago
Bates, Nellie Florence	LAS (SS)	67 <sup>1</sup> / <sub>2</sub>	* † LaGrange
Bath, Gomer D	LAS	50	* † Champaign
Batman, Dorothy Naomi	LAS	29	* † Peoria
Battaille, Irene Louise	LAS	30	* † Champaign
Battaille, Sallie Catherine, A.B., 1917	SS	132	* † Champaign
Battersby, Fred	Bus	38	* † Kewanee
Batterton, Anne Adeline	HEAgr	95	* † Greenfield
Batthey, Leslie James	EE	110	* † Tiskilwa
Bauduit, Agnes Leonie	SS	7	* † Urbana
Bauer, Karl John	Chem	29 <sup>1</sup> / <sub>2</sub>	* † St. Louis, Missouri
Bauer, Wendell Aretus	LAS		* † Centralia
Baughman, Clarence Wayne	LG (SS)	65	* † Chicago
Baughman, Palmer Hubbard	EE		* † Greenville, Ohio
Baughman, Ralph Neal	Agr	29	* † Canton, Mississippi
Baujan, Paul Cecil	Bus	73 <sup>1</sup> / <sub>2</sub>	* † Beardstown
Baum, George Humphrey	Bus	116 <sup>1</sup> / <sub>2</sub>	* † Morris
Baum, Ray Alonzo	LAS	95 <sup>1</sup> / <sub>2</sub>	* † Quincy
Baumgartner, Henry Carl	Bus		* † Chicago
Baumgardner, Karl Conant	LAS (SS)	75 <sup>1</sup> / <sub>2</sub>	* † Sioux Falls, South Dakota
Baumunk, Ross Sonnefeld	IndA	87	* † Champaign
Baur, Adelbert C	Bus	40	* † Chicago
Baus, Walter Emerson	LAS	94 <sup>1</sup> / <sub>2</sub>	* † Indianapolis, Indiana
Bautista, Leopoldo Legaspi	ME		* † Bulacan, Philippine Islands
Bay, Edwin	Agr	96 <sup>1</sup> / <sub>2</sub>	* † Aledo
Bayler, Theodore Franklin	ForC	67 <sup>1</sup> / <sub>2</sub>	* † Louisville, Kentucky
Bayley, Herbert Grant	Bus	72	* † Carmi
Baynes, Kathryn Lee	LAS	36	* † Urbana
Beabout, Jesse Franklin	MedP		* † Casey
Beach, Harriet Alice	LAS	66 <sup>1</sup> / <sub>2</sub>	* † Urbana
Beach, Kenneth Albert	ChE		* † Woodrifer
Beach, Paul Maxwell	Agr sp		* † Champaign

Beadles, Jessie Rachel	LAS	16	* † Virginia
Beal, Warren Fisher	CE sp	8	* Chicago
Beale, Russell Conwell	ChE	34	* † Granite City
Beam, Margaret Elizabeth Pearl	Jnl	33	* † Robinson
Beam, Paul Charles	Bus		* † Rensselaer, Indiana
Bean, Donald Eckhart	LAS	94½	* † Chicago
Bean, Ferrel Martin	Bus		* † Farmer City
Bean, Haldane Wesley	Agr	65	* † Blue Mound
Bean, Roy Anderson	Agr		* † Blue Mound
Bean, Vera Edna	LAS	25	* † Chicago
Beane, Edgar Graham	MedP		* † McKees Rocks, Pennsylvania
Beard, George Merlyn	CE	64	* † Lake Forest
Beard, Marshall Arthur	Bus	101	* † Petersburg
Beardsley, Alfred Stave	EE		* † Council Bluffs, Iowa
Beardsley, Henry Scovell	Agr	107	* † Kansas City, Missouri
Beardsley, Charlotte Marie	LAS		* † Urbana
Beatty, Charles Lloyd	Agr	73½	* † Paris
Beatty, Francis Merrill	Bus	50½	* † Chicago
Beatty, Sarah Margaret	LAS	36	* † Quincy
Beatty, William Forest	Agr	43½	* † Paris
Beauman, Lee Roy	EE (SS)	89½	* † Pittsfield
Beaumont, Thomas Morgan	Agr	98½	* † Kankakee
Bechtold, Lilian Hortense	LAS	33	* † Urbana
Beck, John Albert	Bus	30	* † Dolton
Beck, Walter	EE	45	* † Rock Island
Beckemeyer, Harry John, A.B., 1920	SS	130½	* † Beckemeyer
Becker, Carl, Jr.	ChE	71	* † Chicago
Becker, Carlton Hewitt	CE	37	* † Elgin
Becker, Edmund Frederick	Bus	63½	* † Chicago
Becker, Fredericka Lola	LAS		* † Urbana
Becker, John Haerms	IndEd	26	* † Bloomington
Becker, William Rhodes	MedP		* † Quincy
Beckett, Faith	HELAS	32	* † Corvington, Indiana
Beckham, Irene	HELAS (SS)	12½	* † Urbana
Beckman, Arnold Orville	ChE	52	* † Bloomington
Bedell, Florence	SS		* † Waxahachie, Texas
Bedi, Bawa Horkishan	EE		* † Baha, India
Beebe, Hamilton Keller	LawP	32	* † Chicago
Beebe, Walter Ewart	Bus (SS)	76½	* † Chicago
Beeby, Dorothea Josephine	Jnl	69	* † Chicago
Beeby, Lois Ellen	HELAS	101½	* † Urbana
Beechler, Arthur Karl	EE	66½	* † Springfield
Beedle, Paul Walter	EE	44½	* † East Chicago, Indiana
Beedy, Harold	ME	20	* † Chicago
Beekmann, Harry Louis	Bus	97½	* † Chicago
Beekmann, Henry Louis	Bus	87½	* † Chicago
Beem, William Earl	LawP		* † Champaign
Beeson, Carroll Ona	Arch	42	* † Marshall, Indiana
Beggs, Charles Norman	CE	110	* † Indianapolis, Indiana
Behrens, Catherine Schleder	HELAS	29	* † Pekin
Behrens, Robert Griffiths	MinE sp		* † Chicago
Behrens, William John	EE		* † Chicago
Beifuss, Ruth	HELAS	60	* † Chicago
Beling, Earl Henry	ME	54½	* † Chicago
Bell, Allen Chester	AE	42	* † Chicago
Bell, Fred William	Bus		* † Sterling
Bell, Grace	ComT	67½	* † Bondville
Bell, Harry Laurence	ME	35	* † Highland Park
Bell, Herbert	Chem	29	* † Springfield
Bell, James Charles	LAS	8	* † Joliet
Bell, John Arthur	Jnl sp (SS)	36½	* † Champaign
Bell, Joseph Sloan	SS	57½	* † Champaign
Bell, Margaret Eleanore	LAS	1	* † Champaign
Bell, Nellie Irene	Jnl		* † Sandoval
Bellamy, John William	AE	101	* † Chicago
Bellsmith, Nora Graham	LAS		* † Evanston
Belnap, Roy Miller	Bus	59½	* † Chicago
Belshe, Edwin Baird	Agr		* † Charleston
Belting, John Theodore	SS	8	* † Prophetstown
Belt, Ford Elven	SHAEd	97½	* † Virden
Belton, Oscar Covert	Mus		* † Blue Island
Bender, Arthur La Rue	Agr	31	* † Spring Valley
Bender, Beruta Marie	Bus		* † Moline
Bendle, Clarence Joseph	Bus		* † Pecatonica
Benedict, Cecil Edward	Bus	33½	* † Chicago
Bengston, Norman Elliott	SS	4½	* † Mt. Pulaski
Benjamin, Paul Kingsley	EE		* † Alton
Benner, Dale Allan	Bus	74	* † Chicago
Bennett, Austin Harold	HELAS	103	* † Peoria
Bennett, Emily May	LawP	30	* † Chicago
Bennett, Francis Harold	CE	35	* † Champaign
Bennett, George Lewis	ForC (SS)	50	* † Vandalia
Bennyhoff, Harry Franklin	CE	11	* † Mason City
Benscoter, Melvin Jimison	CE	89	* † Batavia
Benson, Eugene Le Roy	Bus	83½	* † Mt. Carroll

Benson, John Harold	ME	93	* † Moline
Benson, John Harvey	Bus	25½	* † DeKalb
Benson, Merrill Philip	CE	107	* † Galva
Benson, Mitchell Joseph	LAS	49½	* † Indianapolis, Indiana
Bentley, Ellsworth Frederick	AE		* † Chicago
Bentley, Howard Hutson	Bank	100	* † Clinton
Bentley, Virginia Louise	LAS		* † Urbana
Benzie, William, Jr.	Agr		* † Chicago
Benzing, Allan Sawyer	ME	34	* † Evanston
Berendes, Edwin Christopher	Arch	73½	* † Evansville, Indiana
Berg, Arvid Henry	Chem	80	* † North Crystal Lake
Berg, Herbert Andrew	Agr	54½	* † Riverside
Berg, Lloyd Eden	Bus		* † Indianapolis, Indiana
Bergen, Esther Lou, A.B., 1913	Lib	33	* † Springfield
Berger, Henry George	Chem	104½	* † Chicago
Berger, Henry Kasper	Accy	14½	* † Murphysboro
Berger, Paul Jens	AE	51	* † Davenport, Iowa
Berger, Victor Ewald	Bus	32	* † Bremen, Indiana
Bergey, Lester Knipe	Ath	60	* † Colmar, Pennsylvania
Bergfeld, Dorothy Adelaide	Jnl	24	* † St. Louis, Missouri
Bergh, William	Bus	93	* † Newton, Kansas
Bergman, Gale McKinley	AE	23	* † DuQuoin
Bergquist, Carl Frederick	CE	30	* † Geneva
Berkowitz, Freda Eleanor	LAS		* † Mattoon
Berman, Louis	EE	31½	* † Chicago
Bernbaum, Barnet Russell	EngPh	34½	* † Cleveland, Ohio
Berner, Joseph Le Roy	Arch		* † Savanna
Berners, Edgar Hubert	AE	108½	* † Port Washington, Wisconsin
Bernhardt, Irene Marguerite	HEAgr		* † Collinsville
Bernreuter, Herbert Alphonso	EE	12	* † Mt. Olive
Bernstein, Herbert Saul	Eus	58	* † Chicago
Bernstein, Maurice	Bus	18	* † Chicago
Berry, Kenneth Crawford	LAS	102	* † Carthage
Berry, Lawrence Joseph	Agr	97½	* † El Paso
Berry, Mrs. Leanora Gertrude	SS	24½	* † Newton
Berry, Richard Joseph	Bus	34	* † El Paso
Bert, Archie Leon	Chem	33	* † Quincy
Betz, Lyman B.	Bus		* † Hammond, Indiana
Beshers, Hugh Monohan	CE	69½	* † El Paso
Best, Julia Frances	Jnl	97½	* † Milford
Best, Richard Bland	Agr	85½	* † Lerna
Beyer, Fred Martin	EE		* † Morton
Beyer, Lucy	LAS		* † Danville
Bhushan, Vidiya	EE		* † Kashmir, India
Bianchi, Joseph B.	Las sp		* † Champaign
Bianchi, Mrs. Minnie Grim	Ed sp	32	* † Champaign
Bice, Leo Edson	SS	4	* † Hays, Kansas
Bichl, Francis Gerard	Eus		* † Wilmette
Bidwell, Preston Hyde	ME	19	* † Attica, Indiana
Biespiel, Samuel Lenard	Bus	49	* † Chicago
Biestler, Charlotte Elizabeth	HELAS	97½	* † Belvidere
Biestler, Theodore Wilhelm	Accy		* † Sublette
Bills, Edna Charlotte	LAS		* † Chicago
Bills, Robert W.	Agr		* † Sheffield
Bills, Fred Stephen	Accy (SS)	64½	* † Waukegan
Binford, Lucile	Bus		* † Carthage, Indiana
Bingham, Edmund William	Ind.A	20	* † Dundee
Bingham, Edward Harold, Jr.	Ind.A		* † Hinsdale
Bingley, Charles Kolb	Agr sp		* † Chicago
Binkert, Paul George	ME		* † Quincy
Binnington, Nora Louise	Agr		* † St. Louis, Missouri
von Binzer, Werner Frederic	Bus	73½	* † Davenport, Iowa
Bird, James Perry	SS	8	* † Champaign
Bischof, Rudolph Joseph	Bus	29½	* † Pinckneyville
Bisco, Benjamin Bernard	LawP		* † Chicago
Bishop, Richard Edgar	Arch	103½	* † Urbana
Bishop, Samuel Dewey	Agr	57½	* † Perry, Missouri
Bissell, Cushman Brewer	LawP	35	* † Chicago
Black, Beryl A. A.B., 1918	SS	121	* † Indianapolis, Indiana
Black, Helen Fern	LAS	93	* † Palestine
Black, John Nelson	Ind.A	82	* † Greenfield, Indiana
Black, Luther Allen	Agr		* † Macon
Black, Raymond Henderson	ForC	34	* † Rock Island
Black, Robert Alexander	CE	8	* † Chicago
Black, Ruth Frances	Law (SS)	55	* † Paris
Blackard, Clara	LAS	69	* † Harrisburg
Blackard, Mary	LAS (SS)	103½	* † Harrisburg
Blackburn, Bertha Florence, A.B., 1911	Lib (SS)	36½	* † Champaign
Blacker, Vera Josephine	LAS sp (SS)		* † Urbana
Blackledge, Howard	Bus		* † Chicago
Blackman, Alfred Watson	Agr	110½	* † Bloomington
Blackman, Cyrene Elizabeth	Bus		* † Lebanon, Indiana
Blackwell, Robert Eldridge	Agr (SS)	21	* † Urbana
Bladel, Bessie Anna	SS		* † Rock Island
Blaha, Robert Frank	Voc vs p		* † Chicago
Blaine, Jesse Lenius	Bus	25	* † Chicago

Blair, McKendree McElfresh	LAS	65	* † Jacksonville
Blair, Robert Collyer	ME		* † Urbana
Blair, Sarah Elizabeth, A.B., 1892	SS	15	* † Alton
Blakely, Loy John	Agr	58½	* † Kilbourne
Blakesley, Gladys Adele	LAS		* † Kansas City, Missouri
Blalock, James Tillman	Law sp		* † Springfield
Blasey, Frank Earl	ME	30½	* † Tiskitha
Blei, Edmund Berthold	EE		* † Sublette
Blevins, Lusettie	SS	31	* † Atwater
Blevins, Olive May	LAS (SS)	84	* † Atwater
Bliss, Helen	HEAgr	32	* † St. Louis, Missouri
Bliss, James Harrison, Jr.	Law		* † Little Rock, Arkansas
Blodgett, Harold Le Roy	Law sp		* † Fulton
Blomberg, Carl Xerxes	ForC	57½	* † Rockford
Blomgren, Charles Edwin, Jr.	ME		* † Chicago
Bloom, Ruth Eloise	LAS	27	* † Caddo, Oklahoma
Bloomingdale, Paul Harold	Law	31	* † DeKalb
Blough, Florence Evelyn	LAS	28	* † Benton Harbor, Michigan
Blount, Walter Putnam	MedP	100½	* † Oak Park
Blue, Walter Anthony	CE (SS)	62½	* † Webster City, Iowa
Blum, Ethyl May, A.B., 1907	Lib	47	* † Urbana
Blum, Henry John	Bus		* † Collinsville
Blum, Louis Bernard	Bus		* † Chicago
Blumberg, Wallace Zeidon	LawP		* † Danville
Blumenshine, Harold	Bus		* † Eureka
Blumenthal, Morris Arthur	Bus	26	* † Gary, Indiana
Blunk, Clifford Luther	LAS		* † Virden
Blunt, Edith Susan	Bus	67½	* † Urbana
Bluthardt, Oscar David	ChE	61	* † Chicago
Bly, Anna Harriet	Accy	99½	* † Morris
Blythe, Relva Ruth	LAS	15	* † Gays
Bobek, Edward Frank	SS	4	* † Chicago
Boberg, Irving Ernest	CE		* † Chicago
Bobsin, William Henry	Accy	15	* † Chicago
Bodenschatz, Arthur Harold	ME (SS)	137	* † Chicago
Bodman, William Sereno	LAS	36	* † Bement
Boehme, Carl Frederick	Agr	65½	* † Lockport
Boehner, Charles Albert	IndA	25	* † Aurora
Boeker, Victor William	EE		* † Edwardsville
Boemer, Lilburn Casper	MedP		* † St. Louis, Missouri
Boggs, Elizabeth Frances	LAS	35	* † Urbana
Boggs, Norman	LAS	31½	* † St. Louis, Missouri
Bohlinger, John Gass	CE	5	* † Little Rock, Arkansas
Bohn, Gerhardt Herman	ME	76	* † Lockport
Bohn, Russell Orlando	MinE		* † West Union
Bohnen, Edwin Joseph	ME	75	* † Chicago
Bohon, Henry Lynn	Bus	34	* † Decatur
Bohon, Rane Samuel	SS	63½	* † Decatur
Boice, Ada Lenore	LAS	31	* † Champaign
Boice, Milford Coats	EE	124½	* † Champaign
Bojunga, Oswaldo	Bus sp	3	* † Pelotas, Brazil
Bolender, William Adam	Bus	35	* † Rockford
Bolger, William Henry	ChE	38½	* † Chicago
Bollenbach, Elmer Rising	EE	70½	* † Wheeling
Bollinger, Francis Lewis	IndA	66½	* † Chicago
Bollinger, Omar John	LAS	32	* † Champaign
Bolser, Catherine Miriam	LAS		* † Newcastle, Indiana
Bolser, Helen Elizabeth	LAS	32½	* † Newcastle, Indiana
Bolton, Ralph Waldo, B.S., 1918	SS	168½	* † Champaign
Bonansinga, Frank Samuel	Bus	49	* † Jacksonville
Bond, Arthur Doerr	Ath		* † Perryville, Missouri
Bond, Margaret Elizabeth	LAS	31	* † Joliet
Bond, Robert Emerson	MedP	31	* † Harrisburg
Boner, Donald Gustine	Bus	25	* † El Paso
Bongart, Opal Irma	SS		* † Tampa, Florida
Bonnen, Edna Josephine	Bus		* † Urbana
Bonness, Walter Eric William	ME	37½	* † Chicago
Booker, Courtland Spencer	ME	71½	* † Washington, D. C.
Bookless, Roland George	Bus		* † Tolono
Boone, Ethel Corinne	SS		* † Decatur
Boord, John Harmon	IndA	2	* † Springfield
Boorn, Philip Henry	EE		* † Chicago
Eoot, George William Jr.	EE	26½	* † Evanston
Booth, Robert Webster	Bus	4	* † Chicago
Bopp, Harold Franklin	CerE	34	* † Dundee
Borders, Irvin Dougherty	REE	33	* † Kansas City, Missouri
Bordner, Russell Monroe	Bus	31	* † Freeport
Boring, Benjamin Franklin	IndA	106	* † Robinson
Borland, Harold Robert	CerE	99	* † Peoria
Born, Wilbur Leo	Agr	30	* † Cerro Gordo
Boshell, Edward Owen	MedP	35	* † Melvin
Boshkoff, George John	MinE	60	* † Sofia, Bulgaria
Bosold, Esther Lydia Adela	LAS	90	* † Manheim
Bothwell, Robert Ord	Agr		* † Warren
Bott, Roderick Francis	Chem	47½	* † Milwaukee, Wisconsin
Bourland, Theodore Preston	LAS	36	* † Pontiac

Boutwell, William Dow	Jnl	68½	* † Waukegan
Bowditch, Laurence Joseph	ME		* † Urbana
Bowe, Earl Emory	EE	37½	* † Urbana
Bowen, Abner Hiram	ME	46½	* † Delphi, Indiana
Bowen, Charles Edward	Bus (SS)	71½	* † Delphi, Indiana
Bowen, Clarence Robinson	CE	35½	* † Chicago
Bowen, Clarence William	Bus	34½	* † Chicago
Bowen, Cromwell	ME	40	* † Wilmette
Bowen, Luther Leon	ME	97½	* † Dodge City, Kansas
Bowen, William Victor	ME	79½	* † Dodge City, Kansas
Bower, Oliver Kenneth	LAS		* † Hindsboro
Bowerman, Dorothy Beatrice	LAS		* † Leaf River
Bowerman, Herbert Burdette	MedP sp		* † Leaf River
Bowey, Donald Fyfe	ChE	65½	* † Chicago
Bowles, Frank Edward	LAS	56	* † St. Louis, Missouri
Bowly, Devereux Leslie	Bus	8	* † Winchester, Virginia
Bowman, Floyd Walton	Agr	94½	* † Owaneco
Bowman, John Stanley	Bus	47½	* † Rockford
Bowman, Marie	Mus	31	* † Atwood
Bowman, Merton Wilson	CE	86½	* † Blairstown, New Jersey
Bowsher, Kenneth Sylvester	MedP		* † Hume
Boyd, Herschel Francis	Bus	4½	* † El Paso
Hoyd, Moses Bordner	Bus	8	* † Lewistown
Boyd, Orby Cecil	CE		* † Aurora
Boyd, Thomas Alexander	Bus	66	* † Lewistown
Boyer, Charles Allen	Bus		* † Dudley
Boyer, Miriam Wakefield	LAS	16	* † Bloomington
Boyle, John Kenneth	Accy		* † Urbana
Boyle, John Russell	ME	120	* † Chicago
Boyle, Louis Albert	Agr	57	* † Hennepin
Boyle, Marie Agatha	LAS	21	* † Urbana
Boyle, Ruth Frances	LAS	96½	* † Urbana
Boynton, Frederick Langhorn	ME	16½	* † Sycamore
Boza, Alfonso Ezeta	Agr	29	* † Lima, Peru
Bozarth, Byron	LawP		* † Staunton
Brabrock, Arthur Nelson	Bus (SS)	96½	* † Oak Park
Bracken, Dwight Funk	Agr	102	* † Bloomington
Bracken, John Hart	IndA		* † LaGrange
Bracy, William Layne	Accy	32	* † Carleville
Bradburn, Hubert Benjamin	MedP	2½	* † Lincoln
Bradbury, Thomas Bruce	CE		* † Riverside
Braddock, George Washington	LAS	8	* † Mound City
Braden, Edward Fleming	LawP		* † Watseka
Eradish, Cyrus Peck	Agr (SS)	40	* † Ottawa
Bradley, Carydon Collins	C&L	26	* † Springfield
Bradley, Frances Alden	Bus		* † Loda
Bradley, Richard Smith	CerE	35	* † Bremen
Bradshaw, Carroll Wilson	Bus	58	* † Fairfield, Iowa
Bradt, Andrew Glidden	Bank	55	* † DeKalb
Bradt, Elizabeth	LAS	30	* † DeKalb
Bradway, Irving Elmer	IndA	37	* † Grand Haven, Michigan
Brady, Ralph Waldo	EE	18	* † Windsor
Brady, Raymond Hannan	ME sp		* † Indianapolis, Indiana
Brady, Ruth Emily	Agr	31	* † Chicago
Brady, Zoe Elma	LAS		* † Chicago
Bragg, Jubie Barton	SS	7½	* † Talladega, Alabama
Bragg, Virginia	LAS		* † Davenport, Iowa
Braham, Leonard Wilkin	Agr		* † New Wilmington, Pennsylvania
Brain, Marjorie Irene	LAS	43½	* † Chicago
Brainard, Raymond Chester	ME		* † Chicago
Braman, William Henry, Jr.	CE	87½	* † South Bend, Indiana
Bramberg, Rudolph William	Bus	31	* † Oak Park
Brame, Wilbur Carl	Bus		* † LeRoy
Bramble, Zenda June	LAS	46	* † Champaign
Bramhall, Elsie Ruth	LAS		* † Rantoul
Bramlet, Heyward Chesley	LAS		* † Harrisburg
Bramwell, Harry Lisle	CerE	72	* † Idaho Falls, Idaho
Branch, Clarendon Oliver	Bus		* † Rochelle
Brand, Charles Martin	Bus		* † Tolono
Brandt, Walter Edward	ChE	39	* † Davenport, Iowa
Branham, Ivan Bundy	CerE	101½	* † Urbana
Branigan, Dan Andrew	CE	78	* † Amboy
Brannan, Ruth	MedP		* † Albion
Bransfield, Mary Ellen	Jnl		* † Chicago
Brasel, D Glenn	SS	5	* † Salem
Bratton, Edward Samuel	Bus		* † Palestine
Braucher, Margaret Doten	LAS	97	* † Emporia, Kansas
Braun, Leonard Henry	IndA	20½	* † Joliet
Brauns, Esther Dorothy	Bus (SS)	60½	* † West Chicago
Brazeau, Guy Stanton	Bus	48	* † Nekeos, Wisconsin
Brazelton, Florence Carter	LAS	63	* † Greensburg, Indiana
Breckenridge, Mrs. Marie Renfrew	HEAgr (SS)	96	* † Urbana
Brede, Erwin Carl	Arch (SS)	120½	* † Collinsville
Bredehoft, John Fred	Accy (SS)	68	* † St. Louis, Missouri
Bredehoft, Lucille Griffin	LAS		* † Danville
Breen, Thomas	IndA	36	* † Streator



Bregman, Reuben	FOM		* † Chicago
Brehm, Helen Evelyn	Jnl	33	* † Washington, D. C.
Breitsadt, Emma Matilda, A.B., 1916	SS	130	* † Quincy
Bremer, Abraham Meyer	Bus (SS)	136	* † Depue
Bremer, Jesse Currier	CE	62½	* † Hillsboro
Brennan, James Thomas, Jr.	Bus	49	* † St. Louis, Missouri
Brennan, Jessica Wilma	Bus	31	* † Oden
Brenne, Arild Morin	ME	127	* † Chicago
Bressee, John James	CE	63½	* † Mattoon
Bressee, Paul Kirk	Agr	35	* † Mattoon
Brewbaker, Harvey Edgar	Agr	115	* † Bardolph
Brewer, Ellen Ruth	LAS (SS)	36½	* † Champaign
Brewer, Fred Samuel	Agr	34½	* † Atwood
Breyfogel, Albert William	Bus (SS)	87½	* † Chicago
Brickhouse, Linwood Leonard	EE		* † Urbana
Bridges, Frank Bogart	LAS	71	* † Little Rock, Arkansas
Bridgford, Lyle Coleman	SS		* † Champaign
Briem, Rose Doris	Agr	151	* † Joy
Brierton, Bennie Emanuel	LAS (SS)	111½	* † Omaha, Nebraska
Briggs, Alfred Warren	ME		* † Urbana
Briggs, Charles Harlan	Bus	32	* † Morrison
Briggs, Dorothy Frances	SS	5	* † Lisbon, Iowa
Bright, John William	LAS	99	* † Kansas City, Missouri
Bright, Kenneth Alfred	REE	61	* † Chicago
Brink, Millard Charles	Arch		* † Terry, Montana
Brinkerhoff, James Bevier	ME		* † Woodstock
Bristol, Robert Stafford	Bus	38	* † Chicago
Bristow, Warren Knowten	Accy	74	* † Chicago
Briswalter, Alice	LAS		* † Paris
Brittan, Henry Wheeler	LAS		* † Grayville
Britton, Benson Elsworth	Law	32½	* † Quincy
Britton, Harry Bell	Bus	38½	* † Mounds
Broadhurst, Tabitha Jayne	CE		* † Sesser
Brock, Glen Porter	Mus		* † Champaign
Brockman, Cornelius Edward	RA	61	* † Palestine
Brockmiller, Harry	SS	124½	* † Jerseyville
Brodfehrer, Fred Michael	Bus	26½	* † Carlinville
Brodie, Julius	Agr	112	* † Chicago
Brodman, Clarice Irene	Agr	10½	* † Baltimore, Maryland
Brody, Beulah Ina	LAS		* † Beardstown
Brody, George	LAS	34½	* † Des Moines, Iowa
Broeder, Clifford Frederick	AE	31	* † Madison
Brokaw, Eugene Caldwell	ME		* † Chautauqua
Bromm, Carl Reinhold	EE	42	* † Cincinnati, Ohio
Bronski, Chester Russell	Bus	32	* † Evansville, Indiana
Brook, Clarence Louis	EE	37	* † Chicago
Brooks, Chester Alexander	EE	102½	* † Highland
Brooks, Edith	Aer	126	* † Stronghurst
Brooks, Bron Bennett	Mus sp		* † Urbana
Brooks, Eugene Sheffner	RCE		* † Cairo
Brooks, James Knox	ME	35	* † Evanston
Brooks, James Read	Agr	52	* † Forney, Texas
Brookstone, Reuben	Accy	66	* † Chicago
Broom, Mybert Eustace	Accy	60	* † Chicago
Brosman, Paul Williams	SS	108½	* † Effingham
Browman, Mabel Julia	Law		* † Albion
Brown, Bonnar	HELAS		* † Rockford
Brown, Carl H	LAS		* † Winnetka
Brown, Cecil David	Bus		* † Medina, New York
Brown, Constant	ChE		* † Harristown
Brown, Donald	Bus	17½	* † Geneseo
Brown, Elizabeth	Bus	32	* † Havana
Brown, Era David	HEAgr	95½	* † Sparta
Brown, Eunice Josephine	Ath	68	* † Urbana
Brown, Florence Alice	LAS	2	* † Divernon
Brown, Frederick Joseph, Jr.	LAS sp	20½	* † Chicago
Brown, George Alfred	SS		* † Evanston
Brown, George Bentley	ME	69½	* † Rochester, New York
Brown, George Elmon	ChE (SS)	40	* † Wyoming
Brown, Gilbert William	Agr		* † Chicago
Brown, Gladys May	LAS		* † Geneseo
Brown, Hamlin Saxman	Bus		* † Oak Park
Brown, Harold Frederick	ME	57½	* † LaGrange
Brown, Hartley Bruce	Bus		* † Chicago
Brown, Henry James	LAS	37	* † Kansas City, Missouri
Brown, Howard Elsworth	Agr	28	* † Chicago
Brown, Kenneth Cotton	ME (SS)	98	* † Vermont
Brown, Louise Miriam	HELAS (SS)	1½	* † Chicago
Brown, Lyle Chase	Bus	66	* † Urbana
Brown, Lyle Rebecca	LAS	33	* † DuQuoin
Brown, Martha Maria	LAS		* † Momence
Brown, Mary Elizabeth	LAS (SS)	60½	* † Herrin
Brown, Morris	ChE	27	* † Greensburg, Indiana
Brown, Paul Maurice	Bus (SS)	94½	* † Council Bluffs, Iowa
Brown, Ralph Edwin	ME		* † Nokomis
			* † Oak Park

Brown, Ralph Eugene	Bus		* Sparta
Brown, Ralph Newton, B.S., 1920	SS	131½	Greensburg, Indiana
Brown, Raymond Calvin	MedP		* † Eldorado
Brown, Roland Daniel	AC		* † Colchester, Connecticut
Brown, Roy Rivers	EE		* † Bordentown, New Jersey
Brown, Vera Vivian	HELAS		* † Chicago
Brown, Vernon Wayne	ForC		* † Danville
Brown, Wallace Winthrop	Law		* † Joliet
Brown, Winnifred Urline	LAS	61½	* † Carmi
Browne, George Arthur	Agr		* † Carbondale
Browne, Richard Gibbs	LAS		* † Carbondale
Browne, Robert Bell	SS	108	* Carbondale
Browne, Walter Ayres	Bus		* Danville
Browning, Nancy Pope	LAS(SS)	98½	* Benton
Brubaker, Ruth Mae	SS		* Freeport
Bruce, Vern Varnal	LAS		* † Keensburg
Bruce, Warren Cobine	ChE	68½	* † St. Louis, Missouri
Bruhn, Elmer Franklin	CE	66	* † Tuscola
Bruington, George Hall	Agr	3	* † Cameron
Bruner, Allen Maxwell	RCE		* † Palestine
Brunkow, Charles Daniel	MedP	30	* † Dubuque, Iowa
Brunkow, Otto Edwin	Arch	71	* † Dubuque, Iowa
Brunkow, William Henry	ME		* † Dubuque, Iowa
Brunnemeyer, John Emil	Bus		* † Aurora
Bruns, Melvin William	CE	31	* † St. Charles
Brya, Augustus Marcus	Agr	50½	* † Champaign
Brya, Dennis Joseph	Agr sp		* † Champaign
Brya, Francis Erle	Bus	106½	* † Tolono
Bryan, Jennings Mathews	Bus	97	* † Chicago
Bryan, Malcolm Honore	LAS		* † Champaign
Bryan, Mildred Murray	LAS		* † Champaign
Bryan, Robert Edward	AE		* † Indianapolis, Indiana
Bryant, Anna May	CCS (SS)	95	* † Oak Park
Bryant, Burton Kellogg	LAS	87½	* † Chicago
Bryant, Forrest Jennings	MedP		* † Hinsboro
Bryant, James Raleigh	Bus	24	* Owensboro, Kentucky
Bryant, Melvin Sholl	Arch		* Roberts
Bryant, Robert Beach	Agr	70½	* † Princeton
Buchar, Leslie James	Bus	64½	* † Clarion, Iowa
Buchanan, Donald Partridge	ME		* † Highland Park
Buchanan, George Victor, Jr.	Jnl	60½	* † South Norwalk, Connecticut
Buchanan, Gordon, Jr.	MinE (SS)	72½	* † Highland Park
Buchanan, Lloyd Jory	LG	37	* † Whiting, Indiana
Buchanan, Marjorie	LAS (SS)	32	* † Champaign
Buchanan, Rodney Woodson	EE	33½	* † Craig, Nebraska
Buchanan, Willard Robert	Ind-A	37	* † West Chicago
Buck, Glenn Leonard	Agr	57½	* † Moline
Buck, Harold Millard	Agr	32	* † Monica
Buck, J Francis	Agr		* † Morris
Buckingham, Leroy Howland	LAS		* † Urbana
Buckler, Helen Irene	SS	91½	* Champaign
Buckler, Howard Werner	Agr	21½	* † Champaign
Buckler, Mrs. Mary Mae	HELAS	42	* † Urbana
Buckley, Elizabeth May	Bus sp		* † Chicago
Buckley, Lillie Mary	LAS	45½	* † Champaign
Bucknell, Roger Winston	EE		* † East St. Louis
Bucky, Philip Barnett	MinE	115	* † Chicago
Budan, Sylvia	HELAS	31	* † Chicago
Buddeke, Victor Frank	EE		* † Peru
Budelier, Harry Edward	CE	8	* † Rock Island
Rudenbender, Henry William	ME		* † Cicero
Budhe, Janardan Sahasra	Agr	127	* † Nagpur, India
Buehler, Walter Anthony	AE	35	* † Whiting, Indiana
Buescher, Hilda Isolde	SS		* † Bloomington
Buford, Morgan	Bus	30	* † Chicago
Buford, Shelby	MedP		* † Chicago
Buhrmester, Catherine Caroline	LAS	33	* † Nashville
Bulkley, Helen Elizabeth	LAS	30	* † Libertyville
Bullard, John Preston	Bank	35	* † Maywood
Bulley, Allan Edgar	CE	51	* † Kenilworth
Bullis, Grant Leon	Bus	41½	* † Rollo
Bullman, Theodore	Agr		* † Alexis
Bullock, Boyd Willard	Bus (SS)	75	* † Evansville, Indiana
Bullock, Margaret Helen	LAS	32	* † Earlville
Bullock, Norman Charles	Bus	29	* † Rockford
Bulot, Charles Andre Jourdain	ChE	29½	* † LaGrange
Bumgardner, Cecelia Ann	Bus		* † St. Bernice, Indiana
Bumstead, Alice May	LAS (SS)	57	* † Colorado Springs, Colorado
Bundy, Royce Teller	Bus	33	* † Mazon
Bunge, Gordon Carl	LawP		* † Maywood
Buntin, Catharine	HF Agr (SS)	82	* † Urbana
Bunting, William Lyman	EE		* † St. Joseph, Missouri
Burbage, Jesse Sarnuel	SS	1½	* † Birmingham, Alabama
Burch, Kate Pearle	SS	8½	* Ashmore
Burch, Laurence Arthur	EE	37	* † Momence
Burge, Oalv Dobbins	LAS	30	* † Wichita, Kansas
Burgee, James Brown	Accy	97½	* † St. Louis, Missouri

Burgess, Helen Louise	LAS		* † Wellsville, New York
Burk, Leo	Low	43	* † Danville
Burk, Vivian Ethel	LAS	94½	* † Decatur, Indiana
Burke, Elmer Daniel	Ath	8	* † Champaign
Burkhardt, Victor Fredrik	ChE		* † Berwyn
Burkhardt, Oscar Edwin	Chem	66½	* † Edgerton, Ohio
Burkhardt, Waldo Emerson	SS		* † Lanark
Burley, Paul Brown	EE	132½	* † LaGrange
Burling, John Edward	SS		* † Crystal Falls, Michigan
Burmeister, Bernice Baird	LAS		* † Chicago
Burnell, William Reese	EE	102½	* † Spring Valley
Burner, Jarvis Burr	Agr		* † Peoria
Burnett, James Lawrence	CE	36	* † Eldorado
Burnham, Josephine Mae	LAS	104	* † Aurora
Burns, Grace Winifred	LAS		* † Homer
Burns, Johnson Greer	ChE	34	* † Greenfield
Burns, Owen McIntosh, A.B., 1916	Law	80	* † Danville
Burns, Randall Essex	Bus	8	* † Hinsdale
Burnside, Evangeline Bernice	LAS	60	* † Abinadon
Burrell, Gretchen Dorothy	LAS	30	* † Lombard
Burris, Arthur	Agr	24	* † Tonica
Burris, Joseph Gorman	LAS	24	* † Newcastle, Indiana
Burris, Quincy Guy	LAS	15	* † Danville
Burritt, George Evan	CE	68½	* † Rockford
Burritt, Lewis Everett	ForC	30	* † Rockford
Burris, Harold Vernon	SS	10	* † Arenaville
Burt, Brian Parker	MinE	23	* † Kenny
Burt, Clarence Edward	Agr		* † Savoy
Burt, Josephine	LG	98	* † Urbana
Burton, Ruth Beatrice	LAS	64½	* † Urbana
Burton, William Jennings	ME	41	* † Murphysboro
Burwash, Maynard Boswell	Agr	62	* † Champaign
Burwash, Ruth Margaret, A.B., 1919	SS	140½	* † Champaign
Bush, Della May	LAS	29	* † Clinton
Bush, Donald William	LG	98	* † Kansas City, Missouri
Bush, Franklin H	Bus	34	* † Joliet
Bush, Harold Lockley	ME	41	* † Quincy
Bush, Lloyd Wesley	SHAEd	106	* † Nebo
Bush, Ralph Royal	ME	34	* † Yakima, Washington
Buss, Elmer Jennings	Bus		* † Freeport
Bussart, Ora Ivan	Jnl	33	* † Paris
Busse, Edward Clarence	CE	78½	* † Twin Lake, Michigan
Busse, Robert Charles	Chem	17	* † Canton, Mississippi
Bussell, Helen Kathrynne	LAS	36	* † Greensburg, Indiana
Bussian, Marie Antoinette	Bus		* † Chicago
Butler, James Allen	Bus (SS)	62½	* † Urbana
Butler, John Bruce	AE (SS)	104½	* † Cairo
Butler, Maude Marie, A.B., 1920	SS	131	* † Chatham
Butler, Ruth Eliot	LG	32	* † Indianapolis, Indiana
Butman, John Edward	ME	31	* † Chicago
Butt, Emma Mae	LAS		* † Little Rock, Arkansas
Butterbaugh, Homer Wolf	ME (SS)	57½	* † Lanark
Butterfield, Helene Gertrude	Jnl	45½	* † Wilmington
Butterworth, Alfred Lindley	Bus (SS)	90	* † Marion, Indiana
Butts, Ruby Darlene	LAS	36	* † Harvard
Byers, Donald Morrison	LAS (SS)	90	* † Garrett, Indiana
Byers, William Tate	ChE		* † Robinson
Byrnes, Edward Paul, Jr.	ME		* † Chicago
Bysack, Bhupenda Nath	Fank (SS)	112½	* † Calcutta, India
Cable, Erma Elizabeth	Ed	79	* † Chicago
Cadaval, Edwardo Gonzalez, Jr.	ME	108	* † Durango, Mexico
Cade, Helen Jane	HELAS	50	* † Urbana
Cadenhead, George Larimer	ME	30	* † Chicago
Cadmore, John Rannels	Agr	52	* † Waukegan
Cadwell, Charles Stewart	EE	36	* † Chicago
Cadwell, Harold Edgar	Bus	67½	* † Rockford
Cagann, Oscar William	Bus	114½	* † Champaign
Cahill, Charles Adams, Jr.	AE	72	* † Milwaukee, Wisconsin
Cain, Walter David	MSE		* † Chicago
Calame, Gordon Jennings	ME		* † Elgin
Caldwell, Mrs. Harriett Woodcock	SS		* † Champaign
Caldwell, Mrs. Ellen Norris	LAS	8	* † Champaign
Caldwell, Helen Louise	LAS	33	* † Decatur
Caldwell, Ruth Margarithetta	Bank	68½	* † Sheldon
Calene, Edwin Le Roy	EE	70½	* † Sylvan Grove, Kansas
Calkins, Perry Shaul	Arch	61½	* † Freeport
Calloway, Mildred Ione	LAS (SS)	90½	* † Monett, Missouri
Callner, Saul Solkind	SS	147	* † Chicago
Calta, Edward John	CE (SS)	75	* † Chicago
Caluya, Manuel Agbayani	Bank		* † Bintar, P. I.
Calvert, Mills La Mott	CE		* † Lawrenceville
Calvery, Herbert Orion	Chem (SS)	46½	* † Peniel, Texas
Cameron, Alan Bruce	ME (SS)	65½	* † Chicago
Cameron, Daisy Catherine	CCS	67	* † Dundee
Cameron, Edmund Francis Cleveland	Bus	22	* † Dundee
Cameron, Grace Carrol	Bus	15	* † Urbana

Campbell, Anna Mabel, A.B., 1920	SS	133	Hutchinson, Kansas
Campbell, Carl Graham	SS		Huntington, West Virginia
Campbell, Carlos Elmer	SS	118½	White Hall
Campbell, Eugene Shuey	ME	21	Tuscola
Campbell, Everett Wayne	MedP	70½	Washington, D. C.
Campbell, Jeanne Adeline	HEAgr sp	28	Pecatonica
Campbell, Margaret	HEAgr	93	Chicago
Campbell, Nigel Dovell	LAS (SS)	95½	Albion
Campbell, Ronald Kenenth	ChE		Hubbard Woods
Campos, Juan Dayoan	LAS		Sinait, Philippine Islands
Canaday, Franklin Augustus	Agr	65	Homer
Canan, Mack Clelland	MedP		Batchtown
Canedy, Cecil Adelbert	Agr	34	Mt. Carmel
Cannon, John Deering	Bus	34	Chicago
Cannon, Joseph William, Jr.	LAS	99½	Chicago
Cannon, Lowell Edward	Accy		Sidell
Cannon, Ward Curtis	Agr	66½	Buckley
Canter, Mrs. Edna Maloy	LAS	27	Champaign
Cantrell, Charles Burdette	Bus	25½	St. Louis, Missouri
Cantrall, Jean Ralph	CE		Decatur
Caplin, Victor	LAS		Chicago
Capouch, Myron Edwin	MinE	52	Oak Park
Carey, James Arthur	Bus		Kankakee
Carhart, Ralph Miller	CE	8	Wayne, Nebraska
Carlsen, Dwight Allan	Bus		Chicago
Carlson, Agnes Lorena	LAS		Julesburg, Colorado
Carlson, Ambrose Ivenius	ME	38	Chicago
Carlson, Bonita Grace	Chem (SS)	52½	Oshkosh, Wisconsin
Carlson, Carl Harold	Bus	40	Rockford
Carlson, Carl Harold	CE		Oak Park
Carlson, Ernel Franklin	Bus	8	Onawa, Iowa
Carlson, Harry Donald	CE	81	Chicago
Carlson, Herbert Nels Richard	EE	61½	Chicago
Carlson, Joel Williams	Bus	32	Chicago
Carlson, Leroy Vernon	ME	34	Rockford
Carlson, Melvin Carl	Bus (SS)	62½	Chicago
Carlson, Paul Leonard	CE	103½	Lake Forest
Carlson, Reuben Godfrey	Agr	115½	Chicago
Carlson, Thomas William	CE	29	Evanston
Carlyle, Glenn Wilson	EE	32	Albion
Carman, Gage Griffin	Agr	60	Charleston
Carman, Lois	HELAS	32	Urbana
Carman, Max Griffin	LAS	60	Charleston
Carman, Omar Sinn	Agr	97½	Urbana
Carmichael, Eunice Annie	LAS	35	Urbana
Carmichael, Virginia	Bus		Ottawa
Carnahan, Charles Evert	Law	34	Lead, South Dakota
Carney, Charles Roslyn	LAS	63½	Evanston
Carney, Clair Thomas	Bus	8	Belvidere
Carney, Mrs. Mildred Ethel	SS	15	Woodstock
Carpenter, Erasmus Fayette	ME	33½	Williston, North Dakota
Carpenter, Kenneth Duncan	Bus		Mellott, Indiana
Carpenter, Willard Chipman	Bus		St. Louis, Missouri
Carr, Harris Burman	Bank	101	Tipton, Indiana
Carr, Helen Bernice	LAS sp		Oak Park
Carr, John Gregory	IndA	31	Kansas City, Missouri
Carr, Wilton Andrew	EE		Greenup
Carre, Chester Morey	Bus	35	New Orleans, Louisiana
Carre, Darwin Beach, Jr.	LAS	48	New Orleans, Louisiana
Carre, David Morey	IndA	34	New Orleans, Louisiana
Carrell, William Dayton	MedP	38	Greenup
Carrier, Mrs. Hester Ada, B.S., 1918	SS	135	Delavan
Carrington, John Wesley	SS	89½	Fayette, Ohio
Carroll, Charles III	Law	30	Shawneetown
Carroll, Gladys Viola	LAS		Greenville
Carrothers, William Gaylord	ForC	11	Fairfield
Carson, Fred Barnhart	Bus		Danville
Carson, Gerald Hewes	LAS	105½	Carrollton
Carson, Hazel Beersheba	Jnl		Sidell
Carson, Luvilla Bardwell	Law sp		Cordell, Oklahoma
Carson, Raymond Clark	SS	54½	Bethany
Carswell, James, Jr.	MedP		Sreator
Carter, Burton Danforth	ME		Wilmette
Carter, Dale E	Bus		Tulsa, Oklahoma
Carter, Edna	HELAS	18	Rossville
Carter, Fern Ella Sylvester	LAS		Thawville
Carter, Herbert Duane	ChE (SS)	78	Champaign
Carter, Howard Levi	Bus		Elmwood
Carter, Margaret	HELAS	63½	Jamaica
Carter, Raymond Frederick	CerE		Peoria
Carter, Vena	ForC	64½	Rockford
Cartland, Silas	EE	77	Champaign
Cartwright, Albert David	LG		Collierville, Tennessee
Cartwright, Mildred Margaret	LAS		East Moline
Caruso, Felice	Bus		Oak Park
Carver, Frederick Elmer	Flor (SS)	104½	Berwyn

Carvlin, George Michael	LAS	72	* † Chicago
Cary, Agnes Bernece	HELAS	61½	* † LaGrange
Casado, Emmanuel	EE		* † Brazil, South America
Casey, Henry Louis	Agr		* † Libertyville
Caskey, George Rollin	ME	109	* † Chicago Heights
Caskey, Howard Marine	Bus		* † Greensburg, Indiana
Casler, William Justa	CE	41	* † Louisville, Kentucky
Cassidy, Claudia Caroline	Jnl	100½	* † Urbana
Cassidy, George Grattan	LG	119½	* † Urbana
Casson, Thomas Francis	Bus	33½	* † Elgin
Casstevens, Robert Louis	Bus	8	* † Champaign
Caster, Zella Verne	LAS	34	* † Mound City
Castle, Dunlap	LAS (SS)	50	* † Chicago
Castle, Richard Lloyd	Bus (SS)	106½	* † Urbana
Caswell, Ralph Waldo	EE		* † Hinckley
Catanzaro, Joseph Bernard	ME	108	* † St. Louis, Missouri
Cathcart, Annabel Elizabeth	SS	88½	* † Marissa
Cathcart, Jennie Mathews	Mus sp		* † Marissa
Catlin, George Edwin, Jr.	CE	36	* † Peoria
Catlin, Malcolm Cresswell	LG	25½	* † Farmingdale
Cattell, Fred Roy	Bus (SS)	95½	* † Salem
Catton, Miles Dewey	CE	111	* † Toulon
Caughey, Raymond Samuel	Agr	16½	* † Chatsworth
Cavalcanti, Ruy de Lima	Agr		* † New York, New York
Cavanagh, Harold Edward	LAS		* † Utica, New York
Cavins, Harold Maxon	Agr	38½	* † Charleston
Cavins, Joseph Loren	EE	67½	* † Normal
Cawthon, Peter Willis	SS		* † Houston, Texas
Cawthorne, Harold Jesse	LAS	104	* † Linesville, Pennsylvania
Cawthorne, Sylvia Eleanor	LAS		* † Chicago
Cawvey, Clarence Eley	EE	35	* † Marion
Chabot, Arthur Simon	Agr	87½	* † Kankakee
Chadderton, Ralph Miller	Agr		* † Adair
Chadwell, John Toole	LawP	69	* † Quincy
Challacombe, Russell Maurice	Bus	31	* † Princeton
Chamberlain, Clara Adaline, Ph.B., 1920	Lib		* † Decatur
Chamberlain, Olivia Langdon	LG	60½	* † Chicago
Chamberlain, Walter Orrin	ME	73½	* † Berwyn
Chamberlin, Roland McKendree	Agr	16	* † Houston, Texas
Chambers, Leonard Francis	ChE		* † Oak Park
Chambers, Neal Bruce	Agr	19	* † Pawnee
Chance, James Howard	Arch	35	* † Salem
Chandan, Vallabh Chandon	EE		* † Karachi, India
Chandler, Edwin Romick	Flor	98	* † Kansas City, Missouri
Chandler, George Asa	LG	38½	* † Kansas City, Missouri
Chandler, George La Verne	Bus	55	* † Waukegan
Chaney, David Leslie	CE		* † Springfield
Chaney, Owen Lewison	Agr	30	* † Springfield
Chang, Howard Sam	Educ sp		* † Chekiang, China
Chang, Hsieh Ku	Chem		* † Tientsin, China
Chang, Tsong Chen	SS	13	* † Shanghai, China
Changnon, D A Leo	SS	6½	* † St. Anne
Chao, Hwui Wu	ME	87½	* † Honan, China
Chao, Tung Lien	Bank		* † Kiangsu, China
Chao, Wei Han	ME	92½	* † Honan, China
Chapin, Paul Wisegarver	LAS	31	* † Clinton
Chapman, Ione Minervia	LAS		* † Carbon, Indiana
Chapman, Isador	Ind (SS)	116½	* † Des Moines, Iowa
Chapman, Maxwell Cook	Agr	35	* † Carmi
Chapman, Walter Leslie	Bus	60	* † Canton
Charpier, Melvin Walter	Bus		* † Chicago
Chase, Carroll Gayton	LAS	102	* † River Forest
Chase, Fay Harold	EE	100½	* † River Forest
Chase, Joseph Harold	Agr	119	* † Toulon
Chatfield, Roy Hooy	Bus	24	* † Mokence
Chatz, John Holliday	Bus	33½	* † Chicago
Chau, Shi San	SS	15½	* † Malacca Straits, Asia
Cheaney, Thomas Franklin	EE	72½	* † East St. Louis
Cheever, Hurlbert Craig	Arch	151½	* † Waterloo, Iowa
Chen, Kermit C	CE		* † Peking, China
Chen, Ko Mei	LAS		* † Changsha, China
Chen, Tsai Chun	Agr	102½	* † Washington, D. C.
Chen, Yu Ching	CE	79	* † Washington, D. C.
Chen, Yuen Kai	ME		* † Shantung, China
Chenoweth, Russell Lanam	Bus		* † Champaign
Chernin, Morris	SS	47½	* † Urbana
Cherry, Edgar Dean	Bus		* † Kewanee
Chesbro, Helen Hale	HEAgr(SS)		* † Peoria
Chestnut, Nelson Hale	MedP		* † Mason City
Chesterman, Omar Kenneth	Agr		* † Taylorville
Chiang, Hsia	Bus		* † Hunan, China
Chiang, Tao	ChE		* † Hunan, China
Chiao, Harold Ho Ling	Bank	73½	* † Tientsin, China
Childs, Edmond Lyman	Bus	45½	* † Lee
Childs, James Bennett, A.B., 1918	Lib		* † Champaign

Chin, Ssu Tu	Ins		* Washington, D. C.
Chittick, Rupert Addison	ChE		* † Stuart, Nebraska
Choisser, Fern, A.B., 1926	SS	131½	Benton
Chou, Ching Fu	Agr	107½	* † Seattle, Washington
Chou, Hsien Sung	SS	58½	Tientsin, China
Choulet, Jay Merie	Accy		* † Warsaw
Chow, Sze Tsoong	SS	35½	Shanghai, China
Chow, Tonmin S	RCE		† Canton, China
Christian, Harold Martin	Agr (SS)		* Sheridan
Christensen, Tyra Myrtle	LAS	30½	* † Urbana
Christiansen, Christianz Valdemar	Agr		* † Chicago
Christiansen, Gerda	Bus	30½	* † Chicago
Christiansen, Rosalie Marie	LAS		* † Chicago
Christy, Grace Jean, A.B., 1918	Mus irr		† Urbana
Christy, Mae	LAS	98	* † Urbana
Chu, Chia Jen	ME		† Soochow, China
Chu, Hai Ying	ME (SS)	8	* † Hunan, China
Chung, Bessie Wai Oi	Bus		* † Honolulu, Hawaii
Chung, Hsiang Ching	IndA		* Washington, D. C.
Chung, Wei Chen	SS (SS)	92	* † Shanghai, China
Church, Herbert Frederick	SS	8	Peoria
Churton, Florence Helen, B.S., 1917	LAS irr		* † Urbana
Clafford, Floyd Rowland	ME	41	* † Chicago
Claffin, Edward Cahoon	Bus	41	* Lombard
Claffin, Florence Janet	HEAgr		† Washington, D. C.
Clancy, Edythe Marie	LAS		* Genoa
Clancy, Eleanor Lane	SS	7	East St. Louis
Clancy, Marion	SS	16	* East St. Louis
Clare, Joseph Aloysius	LAS		† Chicago
Clark, Alvin William	Agr		* † Kinderhook
Clark, Bruce Byrne	Agr	134½	* Peoria
Clark, Chester Nicholas	EE	72	* † Champaign
Clark, Francis Leonard	Agr		* † Blue Mound
Clark, Francis Matthew	Agr	35	* † Mt. Sterling
Clark, George Thomas	Agr	16	* Washburn
Clark, Gladys Leona	HEAgr		* † Buda
Clark, Hallis Rushton	Accy		† Alma, Michigan
Clark, James William	CE	125½	* † Chicago
Clark, John Elliott	LcwP	56	† Georgetown
Clark, John Henry	ME (SS)	48½	* † Champaign
Clark, John Peters	ME	35	* † Chicago
Clark, John Thomas	Jnl	19	* † Elgin
Clark, June Jackson	LASsp(SS)	6½	* † Carthage
Clark, Kathryn Dumford	LAS	65½	* † Winchester
Clark, Kenneth Woodgard	LAS	105	* † Washington, D. C.
Clark, Lloyd Talbert	Agr	87	* † Kinderhook
Clark, Lloyd Tunks	SS	2	Watseka
Clark, Marie De Gur	SS	145	Coal City
Clark, Marshall Grant, B.S., 1920	SS	8	Carthage
Clark, Perry Edwin	Bus		* † Oxford, Indiana
Clark, Robert Mahlon	Bus		* † Carthage
Clark, Ronald William	Bus		* † Durand
Clark, Rowland Fancher	Agr	35	* † Maunie
Clark, Thomas Edward	ME	106	* † Indianapolis, Indiana
Clark, Viarda	SS		Moline
Clarke, Charles Zebulan	Bus sp		* Indianapolis, Indiana
Clarke, Helen Beulah, A.B., B.Mus., 1915, 1917	SS	189½	Charleston
Clarke, Walter James	Agr	95½	* † Chicago
Clausen, Arthur Dwight	Agr	60	* † DeKalb
Clausen, John Burkert	CE		* † Chicago
Clausen, John Thomas	ME	26½	* † Kenwood, Missouri
Clauson, Samuel Raymond	LcwP	20	* † Cicero
Claxton, Allen Enes	Bus	34	* † Hinsdale
Claxton, Alvie Jacob	Bus	34	* † Hinsdale
Clay, George Lee	AE	9½	* † Lafayette, Indiana
Clearwater, Lillian Ada	SS	5	Arcola
Cleary, Raymond	ChE	43½	* † Chicago
Cleaver, Clara Imogene	LAS		* † Oregon
Clegg, John Joseph	Agr	63	* † Chandlerville
Clements, Robert Cass	ChE		* † Chicago
Cendenen, Harold Campbell	EE		* † Arthur
Cleveland, Laura May	Bus		* † Rockford
Cleveland, Mary Jane	Bus	49½	* † Plymouth, Indiana
Cleveland, Warren Eddy	ME	112	* † Rockford
Cleverer, Clifford Dewitt	LAS	25½	* † Hillsboro
Cleverer, Joseph Henry	MedP		* † Urbana
Cleveland, Thaddeus Oscar	LcwP	34	* † Los Angeles, California
Cleworth, Cecil Herbert	Bus	19	* † Hartford, Michigan
Cleworth, Clarence William	REE	131	* † Sheffield, Iowa
Clifford, Chester Bal	Bus		* † Oak Park
Clinch, John Houston	CE		* † Danville
Clinkman, William Herbert	EE		* † Chicago
Clinton, Carter Milner	EE		† Freeport
Close, Arthur Buckley	SS	131	Chicago
Close, Paul Dunham	ME	141½	* Chicago

Clough, Clarence Edison	Agr	25	* † Chicago
Clover, Everett Le Roy	Agr	110	* † Kankakee
Cloyes, Edith Field	Chem	86½	* † Chicago
Cluff, William Spencer	Bus		* † Chicago
Clute, Beulah Kathryn	LAS	90½	* † Joliet
Clyde, Arthur Harrison	SS	8	* † Beaver Falls, Pennsylvania
Clyne, John Mitchel	Bus (SS)	94½	* † Maple Park
Coale, Arthur Vernon	LG	80½	* † Peoria
Coale, Florence Laura	LG	74½	* † Peoria
Coale, John William	Agr	93½	* † Taylorville
Coan, Ivan Walker	Agr	101	* † Houston, Texas
Coates, William Waldron, Jr.	CarE sp	20	* † Kansas City, Missouri
Coath, Virgil Walter	Bus	13	* † Chicago
Coats, Nellie Mae, B.S., 1915	Lib	13	* † Lafayette, Indiana
Cobb, Howard Roger	Bank	30½	* † Buffalo, New York
Cobb, Margaret Elizabeth	LAS	32	* † Chicago
Cochran, Gilbert Emlyn	Bus	97	* † Champaign
Cochran, Paul Boyd	ChE	8	* † Wilkingsburg, Pennsylvania
Cochran, Robert Moore	Agr		* † Warsaw
Cochrane, Helen Marie	LAS	61½	* † Danville
Coen, Donald George	ME	54	* † Normal
Coen, Mildred Miriam	LAS	69	* † Greenville, Mississippi
Coen, Philip Albert	Agr (SS)	35½	* † Washburn
Coffee, Bess Anna	HEAgr	61½	* † Elgin
Coffeen, Richard Preston	ME	60	* † Champaign
Coffey, Francis James	Bus sp	2½	* † Seymour
Coffey, George Davis	Agr	31	* † Oakland
Coffman, Alden Williams	Chem	51½	* † Davenport, Iowa
Coffman, Mark Stark	Bus	64½	* † Augusta
Coffman, Willis Bryan	Bus	18	* † Flat River, Missouri
Coglan, Anne Margaret	LAS sp		* † Chicago
Cohen, Edward Harry	ME	36	* † LaSalle
Cohen, Raphael	ME	60½	* † Chicago
Cohen, Toba Marie	LAS	15	* † Chicago
Cohn, Edward	Bus sp		* † Lima, Ohio
Cohn, Ernest	Bus		* † Chicago
Cohn, Eugene Ross	Jnl	21	* † Kankakee
Cohn, Samuel	ChE	70½	* † Chicago
Cohon, Beryl David	LAS	70½	* † Chicago
Colby, Alfred Vail	Agr		* † Atkinson
Coldren, Fanny Alice	LAS (SS)	109½	* † Champaign
Cole, Carroll Lavern	ChE	8	* † Western Springs
Cole, Clarence Oliver	Agr		* † Chicago
Cole, Cline Marwin	Bus		* † Marion
Cole, Mrs. Ethel Sleight	SS		* † Ironwood, Michigan
Cole, Helen Bernice	LAS	65	* † Peoria
Cole, James William	Bus	24½	* † Ludlow
Cole, Margaret	CCS	33	* † Marshall
Cole, Robert R	CC&L		* † Council Bluffs, Iowa
Cole, Stephen Earl	Bus (SS)	106	* † Williamsfield
Cole, William Robert	ChE	27	* † Niagara Falls, New York
Coleman, Claude Ernest	LAS		* † Greenup
Coleman, Dorothy Myrtle	LAS sp		* † Danville
Coleman, Oren	SS	135½	* † Carterville
Colin, Guillermo Garcia	ChE	45½	* † Champaign
Colin, Leopoldo Garcia	Chem	52	* † Champaign
Collard, Merrel	SS	8½	* † Carmi
Collefloer, Inez Fern	LAS		* † Hutsonville
Collick, Ruth Mildred	HELAS sp		* † Ironwood, Michigan
Collier, Anna Bess	LAS	38½	* † Urbana
Collier, Bertha Elsie	SS	5½	* † Decatur
Collier, Gladys Louise	HELAS		* † Belvidere
Collier, Theodore Franklin	EE	33½	* † Peoria
Colligan, Neil Joseph	ME	27	* † Chicago
Colligan, Thomas Marcus	EE	8	* † Chicago
Collings, David Burton	EE	75½	* † Urbana
Collins, Arthur Frederick	Bus	25	* † Maywood
Collins, Clarence Jackson	Chem (SS)	66½	* † Champaign
Collins, Clifford Le Roy	Bus		* † Waterloo, Iowa
Collins, Earle John	IndEd	42½	* † Chicago
Collins, Harold James	MedP	32	* † La Moille
Collins, Walter Samuel	Agr	78½	* † Rockford
Colomb, Harold Sidney	Min E		* † Chicago
Colson, Lloyd Dewey	Bus		* † St. Charles
Colson, Robert John	Low	57	* † St. Charles
Colvin, Esther Marie	LAS (SS)	102½	* † Nebo
Colvin, James Clinton	Jnl	60½	* † Hillsboro
Colyer, Raymond Green, A.B., 1920	SS	130½	* † Carbondale
Combs, William Augustus	ME		* † Collinsville
Comstock, John Aldrich	MinE	36	* † Neoga
Comstock, Keyon Phinister	SS	128½	* † Chicago
Comstock, Wilbur Stockton	EE	41	* † Chicago
Conant, Alan Beardsley	Agr	23	* † Joliet
Conard, James Stiles	Agr sp		* † Olney Springs, Colorado
Conaty, John Driscoll	LAS sp		* † East St. Louis
Conde, Lenore Adela	LAS	99½	* † Hammond, Indiana

Condit, Forrest McCool	Law		* † Evansville, Indiana
Condit, Russell Odell	Agr	36½	* † Chicago
Condon, Harold Day	Agr	30	* † Stillman Valley
Condon, Verner Holmes	Bus	2½	* † Bloomington
Cone, Charles	Bus		* † Little Rock, Arkansas
Cone, Maurice Lynn	Law	13	* † Sheridan, Wyoming
Cone, Russell Glenn	CE	75	* † Sheridan, Wyoming
Conel, Ruah Ruth	Mus sp		* † Casey
Conely, Mary Emily	HELAS	28	* † Warrensburg
Congleton, Harlan Davis	Agr	2	* † Urbana
Conkey, Robert Wilson	Bus		* † Mendota
Conklin, Carol Constance, A.B., 1920	SS	138½	* † Urbana
Conley, James Edward	CE	33	* † Belvidere
Conlin, Bernard Aloysious	ME	5	* † LaGrange
Conn, Harlan De Witt	Bus	65½	* † Champaign
Connolly, Joseph Turner	Agr	10	* † Westfield
Connor, John Hal	SS	125½	* † Newton
Connor, Lois Mildred	LAS	65½	* † Rhinand, Iowa
Conrad, Albert Melvin	Bus	19	* † Robinson
Conrad, Casper Houzer, Jr.	Agr sp	107	* † Champaign
Conrad, Clarence Leonard	EE	71½	* † Charleston
Conrad, Emma Louraine	LAS	92	* † Decatur
Conrad, Mrs. Hazel Porterfield	HELAS	115½	* † Urbana
Conrad, John Walter	Accy	72½	* † Charleston
Conway, Thomas Richard	Bus		* † Albert Lea, Minnesota
Conyngton, John	SHAEd		* † Washington, D. C.
Cook, Carl Frederick Martin	FOM	84	* † South Bend, Indiana
Cook, Elizabeth Flora	LAS	16	* † Roberts
Cook, Grace	LAS (SS)	32½	* † Norris City
Cook, Herman Louis	ChE	37½	* † Terre Haute, Indiana
Cook, Morris Henry	EE	111	* † Greenup
Cook, Seymour Houghton	ChE	116	* † Stamford, Connecticut
Cooke, Herbert Lee	SS	7½	* † Bloomington
Cooke, Robert Howell	CE	86	* † Blairstown, New Jersey
Cooke, Tom Dudley	AE	35	* † Lexington
Cooley, Anna	Bus	103½	* † Broadlands
Cooley, John A	Agr	23	* † Newman
Cooley, Marion Fowler	Bus	48½	* † Danville
Coons, Ansel Lucian	IndA		* † Gary, Indiana
Coons, Charles Curtis	ChE	8½	* † Gary, Indiana
Cooper, Albert William	ME	73½	* † Quincy
Cooper, Fay Maxey	LAS (SS)	100½	* † Little Rock, Arkansas
Cooper, Glenn Everett	Bank	43	* † Kankakee
Cooper, Humphrey John	CE		* † Quincy
Cooper, Isadore Earl, B.S., 1920	SS	137½	* † Chicago
Cooper, Maitland Henry	ME	12	* † Ottawa
Cooper, Margaret D	LAS		* † Conway, Iowa
Cooper, William	Bus		* † Chicago
Cooper, Winifred Diehl	Bus		* † Ottawa
Copes, Ira Otho, Jr.	Agr	99½	* † Green Valley
Copley, Harriett	LAS	51½	* † Joliet
Copley, Mary	Ed	90	* † Joliet
Copp, Fulton Watson	REE		* † Detroit, Michigan
Corbett, Carrol Eberhardt	Bus		* † Arthur
Corbett, James Charles	LAS	14½	* † Chicago
Corbett, Paul Stuart	Agr	17	* † Hereford, Texas
Corbin, Leland Harlan	Agr		* † Newton
Corbin, Robert Merle	ChE	31	* † Winnebago
Corbly, Gladys, A.B., 1920	SS	130	* † Paxton
Corey, Raymond Sheridan	Bus	61½	* † DeKalb
Cork, Howard Heinz	Arch	31½	* † Wheaton
Corley, Averitte Henry	MedP		* † Indianapolis, Indiana
Corley, Ralph Conner	MedP	89	* † Tower Hill
Corman, Julian	ChE	33	* † St. Louis, Missouri
Correlisen, Paul Drew	EE	107	* † Pittsburg, Kansas
Cornell, Dorothy Eleanor	HEAgr		* † Gurnee
Cornell, Kenneth Edward	Bus	25½	* † Moline
Cornell, Richard Silva	Bus		* † Carthage, Missouri
Corner, Faye Emma	LAS		* † Urbana
Cornwell, Ross Eugene	ME (SS)	58½	* † Neoga
Corrington, John William	Bus	40	* † Jacksonville
Cortes, Julio Paixas	Agr sp		* † New York, New York
Cortis, Robert Percy	CE	38	* † Hinsdale
Corwine, Grace Evans	LAS	31	* † Lincoln
Cory, Luella Elizabeth, A.B., 1916	Lib (SS)	8	* † Leavenworth, Kansas
Cory, Mary Helen	LAS	94½	* † Hoopeson
Coss, Harold Thornton	CerE	71½	* † Saxmemin
Costello, Virginia Faye	LAS	30	* † Litchfield
Costigan Sherwood Lawrence	LawP		* † Chebanse
Cotes, Mervin Franklin	Bus (SS)	63½	* † Peoria
Cothern, Leland Irvin	MinE	66½	* † Pana
Cottingham, Erma	HEAgr	86	* † Jerseyville
Cottingham, Esther Alice	LAS	32	* † Danville
Cottingham, Lillian Blanche	LAS	42½	* † Mattoon
Cottingham, Paul V	CE	143	* † Danville
Cotton, Frank Earl	Agr	61	* † Homer



Cottrell, James Douglas	Bus		* † Champaign
Coudy, Hazel Grayce	Bus	32	* † Granite City
Coughanour, Richard David	LAS	122½	* † Dallas, Texas
Coughenour, Carolyn Carmen	Accy		* † Fairfield
Coughlin, Francis Collins	LAS		* † Depue
Coughlin, John Anthony	RT	25½	* † Joliet
Coughlin, Lawrence	ME		* † Depue
Coultas, James Harold	EE		* † Virden
Coultas, Wilbur Horace	Agr	35	* † Virden
Coulter, Don Miles	MinE		* † Robinson
Coulter, Grace Edna	HEAgr		* † Urbana
Coulter, Roscoe William Bryan	FOA	35½	* † Urbana
Council, Charles Clemens	AE	86	* † Marion, Indiana
Courtney, George Frederick	LAS	121½	* † Urbana
Coverdale, Ruth Victoria	LAS	40½	* † Chicago
Covey, Ira Jay, Jr.	C&L	122½	* † Peoria
Covington, Mary Louise	LAS	27	* † Havana
Cowan, Esther Lydia	Bus	67	* † Danville
Cowan, Irl Legolden	Bus		* † Milford
Cowan, Rufus Bruce	Agr		* † Danville
Cowell, Roland Adlemar	Ath	75	* † Durham, New Hampshire
Cox, Ansel Voorheis	LAS		* † Robinson
Cox, Fred William	Agr sp		* † Plymouth
Cox, George Bryan	SS	5	* † Urbana
Cox, Mary Jane	LAS sp	14	* † Urbana
Cox, Opal	HEAgr		* † Madisonville, Kentucky
Cox, Rhoda Belle	HEAgr		* † Chebanse
Cox, Wayne Bresee	SS	8	* † Lincoln
Coyle, Amy Margaret	LAS	26	* † Berwyn
Coyle, Emanuel John	IndA	26	* † Galesburg
Coyner, Chester Claude	MinE		* † Chicago
Crabb, Warren Dysert	ChE	35	* † Fowler, Indiana
Crackel, Thelma Ruth	LAS	94	* † Champaign
Craig, Anna Lola	LAS	32	* † Fruitland, Iowa
Craig, Edward Eugene	EE (SS)	75	* † Champaign
Craig, Hazel Iona, A.B., B.M., 1910			
1913	Mus irr		* † Champaign
Craig, Ivan Alburtus	Bus		* † Galva
Craigmile, Mary Agnes, A.B., 1917	SS	130½	* † Rantoul
Crain, Edward Lawrence	Bus		* † Normal
Crain, Joseph Milton	LawP		* † Villa Ridge
Cramer, Glenn Everett	ME		* † Quincy
Crammond, Ralph Gibson	Agr	79	* † Peoria
Crandall, Richard John	EE (SS)	6	* † Urbana
Crane, Clarence Broadbeck	Accy		* † Mattoon
Crane, Henry Ludlow	Agr	59	* † Clearmont, Missouri
Crangle, Walter Francis	Ath	56½	* † Onarga
Crapo, Aileen Marie	LAS	65½	* † Kankakee
Craver, Alva Wilfred	Agr	101	* † Harvey
Crawford, Bess Lovinia	LAS		* † Belknap
Crawford, Carroll Victor	Agr	35½	* † Danville
Crawford, Charles Hackney	Bus	18½	* † Harvard
Crawford, Charles Matthew	LAS	104	* † Washburn
Crawford, Mary Ann Elizabeth	Arch	26	* † Carlinville
Crawford, Mary Clara	HELAS	33	* † Urbana
Crawford, Nelle Florence	Mus sp	90	* † Champaign
Crawford, Philip Marion	ForC	22½	* † Champaign
Cray, Charles Louis	Law	30	* † Jerseyville
Creamer, Carl Moore	Bus		* † Tolono
Crean, Chester Leo	LAS		* † Mattoon
Cress, Foster Lohr	Agr	24	* † Hillsboro
Cressey, Hubert Dean	ME	28	* † Springfield
Crew, Maurice Croushorn	ChE	95½	* † Aurora
Crickman, Chlorus William	Agr	92	* † Clay City
Crighton, Malcolm Murray	Bus		* † Fort Wayne, Indiana
Crill, Clarence Elmer	Bus	68½	* † Monroe Center
Crill, William Franklin	Agr (SS)	95½	* † Monroe Center
Crissey, Joel Brigham	Bus	33	* † Oak Park
Crocket, Collis Huntington	LAS		* † Portsmouth, Virginia
Crockett, Carrie Virginia	SS		* † Canton
Croisant, Ellis Henry	ME		* † Depue
Croll, Henry Albert	EE	46½	* † Chicago
Cromer, George William	Chem	107	* † West Chicago
Cromwell, Bernhard Johannes	MedP	58	* † Hanover
Crooker, Winfield Durbin	Bus		* † Jeffersonville, Indiana
Crooks, Charles Franklin	Ath	39	* † Dayton, Ohio
Crooks, Lester Maurice	Agr		* † Milford
Crosby, Glen Monroe	ME	103½	* † Maywood
Cross, Hugh Ware	Law	76½	* † Jerseyville
Cross, Lois Kathleen	LAS	33	* † Sidney
Crossen, Robert Walter, Jr.	ME	31	* † Joliet
Crossley, Clarence Francis	ChE	74½	* † St. Louis, Missouri
Crouch, Elizabeth	Jnl		* † Lafayette, Indiana
Crowder, Robert Harrison	LAS		* † Sullivan, Indiana
Crowell, Truman MacKenzie	LawP	55	* † Pawpaw
Crowell, Zelah Enrice	Agr	35	* † Waverly

Crowley, John David	<i>Agr sp (SS)</i>	13	* † Springfield
Croxton, Walter Clyde	<i>Ed</i>	99½	* † Rushville
Crum, Virgil Handley	<i>MedP (SS)</i>	31	* † Pontiac
Cruse, Inis Lucille	<i>LAS</i>		* † Flora
Cryder, Ray Eugene	<i>Agr</i>	112½	* † Morris
Cuellar, Leonard Manuel	<i>AE</i>		* † Sancti, Cuba
Culkin, Louis Thaddeus	<i>ME</i>	62½	* † Coxackie, New York
Culkin, Wilfred Cosgrove	<i>Bus</i>		* † Carthage
Culp, Lester Brenholt	<i>Accy</i>	41½	* † Bethalto
Culligan, William James	<i>Bus sp</i>		* † Bayonne, New Jersey
Culter, Ralph Emerson	<i>Accy</i>	108½	* † Gibson City
Culter, Samuel Harold	<i>Agr</i>		* † Ripley, Ohio
Cummings, Clarence Clinton	<i>Accy</i>		* † Rockford
Cummings, Howard	<i>LAS</i>	27½	* † Jerseyville
Cummings, Ira Roberts	<i>EE</i>	111	* † Joliet
Cummings, Joseph Calvin	<i>Bus</i>		* † Rockford
Cummings, John Chester	<i>AE</i>	8	* † Eau Claire, Wisconsin
Cummings, Rodney Keeney	<i>Bus</i>	36	* † Rockford
Cummings, William Gordon	<i>CE</i>	44	* † Geneva
Cummings, John Wesley Key	<i>Bus</i>		* † Marion
Cunliffe, Edwin Kendall	<i>CE</i>	16	* † Detroit, Michigan
Cunnea, Joseph Patrick	<i>CE</i>	92	* † Chicago
Cunningham, Clyde	<i>SS</i>		* † Mecca, Indiana
Cunningham, Ernest Thomas	<i>Jnl</i>		* † Chicago
Cunningham, Walter Cheever	<i>Bus</i>	27	* † Tipton, Indiana
Cunningham, Willard Thomas	<i>Bus</i>	42½	* † Rossville
Curnock, William Leonard	<i>CE</i>		* † Maywood
Curran, Dorothy M	<i>LAS</i>		* † Kansas City, Missouri
Currier, Lawrence Jenks	<i>Bus</i>	106½	* † Aurora
Curry, Arthur Ray, A.B., 1916	<i>Lib</i>	39	* † Cleburne, Texas
Curry, Cordelia Patricia	<i>LAS</i>		* † Peoria
Curtis, Carl Adelaide	<i>LAS</i>		* † Grant Park
Curtiss, Earle Muller	<i>LAS</i>	27½	* † Chicago
Curtiss, Edward Augustus	<i>Agr</i>	70	* † Stockton
Curtiss, Homer Wellington	<i>LAS</i>		* † Stockton
Curvin, Joseph James	<i>Bus</i>		* † Virden
Cushman, Angeline Bertha	<i>HELAS (SS)</i>	82½	* † Danville
Cushman, Kenneth Bruce	<i>FO.M</i>	105	* † Yonkers, New York
Cuskaden, Myron E	<i>Agr</i>	41½	* † Cape Girardeau, Missouri
Custer, Florence Cecelia	<i>Bus</i>		* † Hamilton, Ohio
Cuthbertson, Donald Franklin	<i>Bus</i>		* † Oak Park
Cutler, George Clinton	<i>Agr</i>	43	* † Carthage
Cutler, Sara Agnes	<i>LAS</i>	33	* † Urbana
Cutshall, Paul Webster	<i>RA</i>	38	* † Brazil, Indiana
Dack, Gail Monroe	<i>Agr</i>	62½	* † Elgin
Dahlberg, Doris Louise	<i>LAS</i>	75	* † Galesburg
Dahlman, Homer Stillwell	<i>Bus</i>		* † Chicago
Dahlquist, Ruby Christine	<i>LAS</i>	97	* † Neponset
Dahm, Marie Florence	<i>LAS</i>	35	* † Chicago
Daigh, Percy Harrison	<i>SHAE (SS)</i>	69½	* † Perry
Daily, Milton Hayward	<i>Bus</i>	8	* † Chicago
Dale, Charles Sherman, B.S., 1920	<i>SS</i>	144½	* † Urbana
Daley, Robert William	<i>Bus</i>	65	* † Buffalo, New York
Daly, Harold Merland	<i>LAS</i>	31	* † Armingdon
Damhoff, Le Roy Edward	<i>Agr</i>	49½	* † Morrison
Damisch, Herbert Raymond	<i>Agr</i>	35	* † Gilberts
Dana, Everett Varnum	<i>Bus</i>	32	* † Kewanee
Danforth, Harlan Kingsbury	<i>Agr</i>	30	* † Washington
Dangremond, Carleton Elmer	<i>Bus</i>	67	* † Chicago
Dangremond, Le Roy Marion Gerritt	<i>CE</i>	53½	* † Chicago
Daniels, Lucy Helen	<i>LAS</i>	82	* † Chicago
Daniels, Philip Maurice	<i>Bus</i>	12	* † Chicago
Daniels, Rupert Samuel	<i>Chem</i>	70	* † Harvey
Daniels, Stewart Derry	<i>Bus</i>	94	* † Jerseyville
Danielson, Cecil Reynolds	<i>Bus</i>	32	* † Rockford
Danielson, Marvin August	<i>LAS</i>	24	* † Laporte, Indiana
Danneberger, Charles Obourn	<i>SS</i>	85	* † Shelbyville
Depper, Howard Wesley	<i>Accy</i>		* † Quincy
Dappert, Lucy Catherine	<i>LAS</i>	36	* † Taylorsville
D'Arcy, Jennie Myrtle	<i>SS</i>	35	* † Wilmette
Darley, Samuel Dawson	<i>Agr</i>	93½	* † Jacksonville
Darling, Elton Richmond	<i>SS</i>		* † Decatur
Darling, George Edward	<i>Bus</i>		* † Elkhart, Indiana
Darling, Lyman Abbott	<i>ME</i>		* † Natchez, Mississippi
Darnall, Andrew Jackson	<i>Bus</i>	37	* † Danville
Darnall, Warren Verne	<i>Bank</i>	100½	* † Oak Park
Dattelbaum, Rhoda	<i>Jnl</i>		* † Chicago
Dauber, Addis Lionel	<i>Agr</i>	61½	* † Chicago
Daugherty, Clayton Forrest	<i>Jnl</i>	29½	* † Champaign
David, Helen	<i>LAS</i>		* † Wilmette
David, Norman Kessler	<i>Bus</i>		* † Chicago
Davidson, Fred Alexander	<i>Agr</i>	93½	* † St. Louis, Missouri
Davidson, Theodore Andrews	<i>Bus</i>	26	* † Chicago
Davis, Ahren Adam	<i>ForC</i>		* † Fairfield
Davis, Alfred Hotchkiss	<i>LAS</i>		* † Robinson
Davis, Anna Leila	<i>SS</i>		* † Litchfield

Davis, Beryl	Bus	96	* † Tampico
Davis, Catalina	LAS	43	* † Philo
Davis, Charlene	SS		* † Decatur
Davis, Charles Jesse	ME	111½	* † Chicago
Davis, Clare Rudolph	SS	60	* † Donnellson
Davis, Chester Rudolph	Law	30	* † St. Charles
Davis, Donald Byer	Agr	31	* † Connersville, Indiana
Davis, Earl Andrew	SS		* † Tampa, Florida
Davis, Earl William	Bus	39½	* † Pueblo, Colorado
Davis, Elizabeth	SS	50	* † Champaign
Davis, Edward Moffett	ChE		* † Indianapolis, Indiana
Davis, Esther	LAS		* † Chicago
Davis, Ethyl Ann	SS		* † Decatur
Davis, George Andrew	Law		* † Hazel Crest
Davis, Harold Baltzell	Arch (SS)	72½	* † Champaign
Davis, Harold McDonald	Ath (SS)	114½	* † Mooreland, Indiana
David, Harold Sterling	IndA	34	* † Springfield
Davis, Herbert Spencer	LAS	107½	* † Louisville
Davis, Herschel B	C&L	30	* † Clinton, Indiana
Davis, Ivan William	ForC		* † Urbana
Davis, Lester Roy	Bus		* † Christopher
Davis, Lynn L	Bus		* † Chicago
Davis, Mary Belle, A.B., A.M., 1901, 1916	Accy irr (SS)		* † Urbana
Davis, Mary Lucile	HELAS	100	* † Sikeston, Missouri
Davis, Meredith Keith	Bus		* † Blandinsville
Davis, Myrtle Ellen	HEAgr	21	* † Corydon, Indiana
Davis, Nord William	LG	25½	* † Fairmont, Minnesota
Davis, Ora William	Agr (SS)	33	* † Hennepin
Davis, Priscilla Helen	SS	3	* † Granite City
Davis, Virginia Helen	ForC		* † St. Louis, Missouri
Davis, Waldo Emerson	EE	90	* † Rapatee
Davis, William Bryna	Agr	15	* † Bloomington
Davis, Zelma Laurence	SS	7½	* † Champaign
Davison, Dorothy Stella	LAS	3½	* † Chicago
Davison, Eugene L	Agr	46½	* † Springfield
Davison, Florence Mabel	LAS		* † Chicago
Davison, Harold Jerome	IndA	26	* † Canton, Ohio
Davison, Homer Reese	Agr	85	* † Springfield
Davison, Robert Mary	Jnl	51	* † Springfield
Dawson, Cecil Dennis	Bus		* † Herrin
Dawson, Dewey Mitchell	Bus	50	* † Scotland
Dawson, Francis Auras	ChE		* † Kokomo, Indiana
Dawson, George	Bus		* † Wheaton
Dawson, Presley Carson	Bus		* † Dixon
Dawson, Sarah Eleanor Helen	HEAgr (SS)	31	* † Champaign
Day, George Vernon	Agr		* † Dolton
Day, Howard Bloodgood	EE	35	* † Westfield, New Jersey
Deakin, Perry	SS	5½	* † Detroit, Michigan
Dean, Harold Frederick	ME	70	* † Mendota
Dean, Helen May	SS	6	* † Bloomington
Decker, John Ernest Everingham	Bus	33	* † Oak Park
Decker, Plyn Monroe	Agr	113	* † Woodhull
Decker, Ralph Talbot	ChE	125	* † Augusta
De Cook, Harry Benjamin	SS		* † Rose Hill, Iowa
Dedman, Philip Thornton	ME	68½	* † Kansas City, Missouri
Deeming, William Seaber	Bank	101½	* † Sterling
Defenbaugh, Charles Ronald	LawP	15	* † Reading
De Garis, Henry Marshall	ME		* † Elgin
De Groot, William Benton	Agr	93	* † Washington, D. C.
De Hart, Glen S	Agr		* † Arthur
De Haven, Thomas Wright	SS	7½	* † Blandinsville
De Haven, Walter Samuel	ME		* † Chicago
Dehr, William Bohlander	EE	63½	* † Hinsdale
Deihl, Rolla Lescher	Bus		* † Morrisonville
De La Cruz, Clemente Bautista	CE sp		* † Washington, D. C.
Delahunty, William Patrick	Agr		* † Dalton City
Delap, Ralph Leonard	EE		* † Kansas City, Missouri
De Loach, Edward Lowell	LAS		* † Chicago
De Lorne, Emil	Voc vs p (SS)	5	* † Peoria
Delp, Joseph Jacob	Accy	38	* † Lanark
Del Plaine, Parker Haywood	Chem	25	* † Champaign
Delson, Ezra	C&L	36	* † Chicago
Denby, Helen Elizabeth	HELAS	62	* † Carlinville
Dencer, Frederick Arthur	MinE	64½	* † Chicago
Denison, Van Alvin	AE		* † St. Louis, Missouri
Denman, Myrties	LAS sp (SS)		* † Champaign
Dennett, Dorothy	Jnl	36	* † Wilmette
Dennett, Helen	LAS	31	* † Wilmette
Dennett, Kenneth	Bus	60½	* † Chicago
Dennis, Inez Irene	LAS		* † Homer
Dennis, Jacob Francis	Bus		* † Ellsworth
Dennis, Katherine McClelland	HELAS	32	* † Urbana
Denny, Frank Morey	Bus	36	* † Vandalia
Denny, Maurine Louise	LAS	32	* † Vandalia
Denton, Marcelle Freeland	C&L		* † Hillsboro

Denton, Mary Lou	Chem (SS)	96	* †	Pittsburg, Pennsylvania
Denyes, Lawrence Owens	LAS	36	*	Evanston
Denzel, Robert Emil	Bus		* †	Highland Park
Dependahl, Carrie Wilhelmina	SS	8		Delhi
Dependahl, Serena Elvira	SS	7		Allon
Depler, John Clarence	ForC (SS)	98	*	Lewistown
Deremiah, John Francis	EE	8	*	St. Elmo
Derrough, Gertrude Jeanette	Jnl	31	*	Champaign
Derrough, Ralston Fletcher	Bus	52	*	Champaign
De Sart, Minnie Estella	SS	4		Urbana
Des Laurier, Richard Paul	EE ssp	8	*	Kankakee
Detjen, Herbert Frederic	Arch		†	Janesville, Wisconsin
Devere, Florence Edith	Bus	34	*	Kankakee
De Voe, Earle Lawrence	Bus	55½	*	Freeport
Devere, Jack Joseph	ME	80	*	Chicago
De Wees, Dwight L.	LAS		*	Moorestville, Indiana
De Witt, Charles William	Agr	26½	*	Downers Grove
De Witt, Herman William	Bus		*	Mt. Vernon
De Witt, Jessie Estella	SS			Rockford
De Witt, Maurice Irvin	LawP	31	* †	Mt. Vernon
De Witt, Ruth Houlton	LAS	60½	*	Downers Grove
Dews, William S.	ME		†	Chesterfield
Dexter, Clyde Lotan	Agr	70¾	*	Galva
Dhein, Ray Emerson	AE	67½	* †	Dayton, Ohio
Dice, Charles	SS	8		Covington, Indiana
Dice, William Rush	Bus	100½	* †	Charleston
Dickey, Margie Elnora	LAS	35	*	Champaign
Dickinson, Frank Greene	LAS	95½	*	Griggsville
Dickinson, Marjorie M.	LAS sp		†	Griggsville
Dickinson, Robert Ellis	Bus	36½	*	Little Rock, Arkansas
Dicks, Forrest Algerton	LAS	30	*	Broadlands
Dicks, Kenneth Tompson	MedP		*	Broadlands
Dickson, John Harold	Bus		* †	Indiana Harbor, Indiana
Dickson, Martha Harriet	Lib(SS)	7	†	Wharton, Texas
Didham, Philip Brooks	Bus		*	Chavrin Falls, Ohio
Diefenderfer, George Woodruff	Agr (SS)	64½	* †	Chicago
Dieffenbacher, Martha Mitchell	SS	27½	*	Havana
Dies, Ellen Livingood	LAS sp	11	* †	Memphis, Tennessee
Diesel, Wilfred August	RA (SS)	118½	*	Chicago
Dietrich, Carl Bernhard	IndA	92	*	Champaign
Dietrich, Ruth Josephine	LAS	65½	*	Bremen, Indiana
Dietrich, Sterling Miller	Bus	102½	*	Bremen, Indiana
Dille, Lavina Faye	HEAgr	50	†	Kansas City, Missouri
Dillie, Kathryn Angeline	SS	17½		Granite City
Dilling, Lela Lucile	LAS	110½	* †	Urbana
Dillon, John Bradley	ME		*	Sterling
Dillon, Pauline Louise	LAS	12	*	Chicago
Dillon, Teresita	LAS (SS)	81	* †	Danville
Dilsaver, Jewell Irwin	Bus		* †	White Heath
Dimond, Lawrence Everette	Bus		*	Aurora
Dining, Josephine Louise	LAS		*	St. Francisville
Dinsmore, Webb Onslow	Jnl	18½	* †	Attica, Indiana
Dippell, Lawrence Vernon	CerE	34	*	Freeport
Dittmann, Frances Emaline	Agr	62½	*	Chicago
Dixon, Alfred Leonard	LAS	36	*	Champaign
Dixon, Arthur George	CE	8	*	East St. Louis
Dixon, Harry Louis	Flor	96¾	*	West Somerville, Mass.
Dixon, Hubert Theodore	EE(SS)	23	*	Kewanee
Doak, Emily Elizabeth	LAS	58½	*	Paris
Doak, George William	Agr	46	†	Robinson
Doane, Floyd Telford	SS	131½	*	Peru, Nebraska
Dobbins, Roy Franklin	Bus	4	* †	Champaign
Dobbins, Samuel Orr Holliday	MinE	31	* †	St. Louis, Missouri
Dobson, George Young	Bus	28	*	Moscow
Dobson, Ray Robinson	Bus	43	*	Milmine
Dobyns, Marie Jewell	LAS (SS)	96½	* †	Champaign
Dodd, William J.	Agr	32	*	Champaign
Dodds, Donald Chambers	Bus	103	* †	Champaign
Dodds, Gladys	SS	8	*	Palmyra, Missouri
Dodds, Josephine, A.B., 1917	LG irr	135	* †	Champaign
Dodds, Morris Barnes	ChE		* †	Springfield
Dodge, Charles Hulbert	MinE		* †	Fall River, Massachusetts
Dodge, Eleanor Edith	Bus		* †	Oak Park
Dodge, Harrison Monroe	Bus	61½	*	Bloomington
Dodsworth, Jesse Willard	Agr	71	*	Berkeley, California
Doepel, Robert Francis	ME	117	* †	Mattoon
Doern, Edwin Arthur	Bus		* †	Chicago
Doerr, Emil William	EE		*	Carmi
Dohm, Marie Elizabeth	HELAS	60	* †	Girard
Doisy, Roberta Josephine	Jnl (SS)	108½	* †	Champaign
Dolan, Ernest Marion	LAS sp		*	Centralia
Dolby, Vernon A.	AE	110½	*	Elgin
Dolle, Frances Theresa	LAS	33	*	Chicago
Dolly, John Weldon	LawP	26	*	Rock Island
Dombourian, Nerses Abraham	CE		*	Tarsus, Asia
Donahue, Ada Elizabeth	LAS	93	* †	Quincy

Donahue, Frances Eleanor	ChE		* †	Bloomington
Donahue, Mary Ellen	HELAS	67	* †	Bellevue, Ohio
Donahue, Mary Regis	SS	6		Columbus, Ohio
Donahue, William Dale	LAS	68	* †	South Bend, Indiana
Donaldson, Robert Jennings	EE	108½	* †	Grayville
Donlin, Logan Leon	RA	37½	* †	Chicago
Donnan, Dallas Leo	Bus	41	* †	Idlewood, Florida
Donnell, Mark Blaine	IndA		* †	Abilene, Texas
Donohoe, Philip Henry	EE	133½	* †	Macomb
Donohoe, Thomas Wise	MedP	38	* †	Greensburg, Pennsylvania
Doolittle, David Douglass	ForC	31½	* †	Chicago
Doorley, Nellie Elizabeth	LAS		* †	Polo
Doran, Ruth	LAS	90	* †	Hammond
Dore, Clarence Raphael	Jnl		* †	Chicago
Dore, John Patrick	Agr	33	* †	Hennepin
Dorsett, Walter Harper	Agr	110½	* †	Augusta
Dorsey, Asenath Helen	Jnl	29	* †	Denver, Colorado
Dorsey, Edith Margaret	Jnl	36	* †	Peoria
Doty, Marshall Lloyd, Jr.	IndA		* †	Wilmette
Doubet, Earl Wesley	Ath	29	* †	Peoria
Doud, Oscar Leo	Accy	65	* †	Chatsworth
Dougherty, Edwin Wallace	Agr	28	* †	Monmouth
Dougherty, Floyd Clarence	Ath	42	* †	Michigan City, Indiana
Dougherty, John Francis	Law	30	* †	Chenoa
Doughty, Homer Harrell	Agr		* †	Allenville
Douglas, Harry Fred	ME		* †	Oblong
Douglas, Raymond Greene	LAS	60½	* †	Albion
Douglas, Robert James	MedP	56	* †	Chicago
Douglass, Binette	Jnl	60	* †	Chicago
Douglass, Bonnie June	Mus	53½	* †	Urbana
Douglass, Katharene Fidelia	HELAS		* †	Winona Lake, Indiana
Douglass, Paul Whittier	CE	35	* †	Urbana
Douglass, Thomas Jay	Agr	60	* †	Batchtown
Douthit, Freda Josephine	SS	8		Decatur
Dowell, Edd Lincoln	EE	¼		Marion
Dowell, Otis Francis	EE	35	* †	Port Richmond, New York
Dowell, Ralph Stanley	Bus	71½	* †	Bloomington
Dowiatt, Mary Regina Euphrosyne	Bus		* †	Westville
Downing, Helen Rebecca	LAS	120	* †	Bowen
Downing, Isabel Nessie, A.B., 1919	Lib	1	* †	St. Charles, Minnesota
Downs, Hedwig Veronica	LAS	33	* †	Chicago
Downs, Myron Day	LG	142½	* †	River Forest
Doyle, Marie	LAS	38	* †	Champaign
Drahl, Chester Matthew	Agr		* †	Cicero
Drake, Richard Carvel	ChE	28½	* †	Chicago
Drake, Robert Joseph	Bus	106½	* †	Chicago
Dralle, Claude Frederick	EE		* †	Quincy
Dralle, Ruth Clara	SS	111½	* †	Champaign
Draper, Florence Gladys	Bus	66	* †	Divernon
Draper, Mrs. Frances Headen	Mus	46	* †	Urbana
Draper, William Alexander	MedP	23½	* †	Clinton
Drayer, Clarence Tilghman	AE		* †	Indianapolis, Indiana
Drees, Frank Joseph	Agr	35	* †	Downers Grove
Dreier, Gladys Marie	LAS	25	* †	Havana
Dreman, Henry Kenneth	Bus	33	* †	Princeton
Drennan, Benjamin Homer	Agr	24	* †	Auburn
Dresen, William Downey	ME		* †	River Forest
Dressel, Lucian	Agr		* †	Jerseyville
Drevno, Hymen Daniel	Bus	58½	* †	Chicago
Drew, Leslie Arthur	EE	113	* †	Chicago
Drews, Hazel Agnes	HELAS	23	* †	St. Louis, Missouri
Drexmit, Raymond William	IndA		* †	Chicago
Dreyfus, Milton	Bus	71	* †	Fisher
Dreyfus, Monroe S.	Bus	66	* †	Fisher
Drielsma, Jonas Arthur	Arch	34	* †	Chicago
Driver, Damon Wilbur	Agr	105	* †	Corrollton
Drom, Margaret Catherine	LAS	34	* †	Antioch
Drummond, James	SS			Omaha, Nebraska
Drysdale, Margaret Nelson	LAS		* †	Chicago
Duane, Margaret Joan	Bus		* †	Mattoon
Dubach, Merrill King	CE		* †	Kansas City, Missouri
Dube, Jugal Kishore	Chem		* †	Bhopal, India
Du Bois, Granville Chase	LAS	40	* †	Eldorado
Du Bois, Lenore, B.M., 1920	SS	145½	* †	Roberts
Du Bois, Louis Jury	ME	62½	* †	Eldorado
Du Bois, Robert Arthur	Agr		* †	Cobden
Duca, Paul Natal	AE		* †	Chicago
Du Chemin, Robert Harold	CE	104½	* †	Maplewood, Missouri
Duckwall, Frank Edward	LAS	3	* †	Indianapolis, Indiana
Duckworth, Everett Hines	Agr	34	* †	Marietta, Indiana
Dudley, Mary Eloise	LAS	14	* †	Springfield
Duensing, William Dean	Bus		* †	Toledo
Duffie, Paul Michael	Bus	85	* †	Sterling
Duffin, Russell Maurice	Jnl		* †	Danville
Duke, Horace	Bus		* †	Prescott, Arkansas
Dumbolton, Carl Pritchard	Arch		* †	Wichita, Kansas

Dunbar, James Loualvin	SS	22½	Allamont
Dunbar, Louise Burnham, A.B., A.M., Ph.D., 1916, 1917, 1920	SS		Urbana
Dunbar, Roscoe Abner	SS	6	Bowers, Indiana
Dunblazier, Mary Sybil	LAS		* † Fort Smith, Arkansas
Duncan, Chesney Reid	Arch	108½	* † Kingman, Indiana
Duncan, Harold Dale	EE sp	8	* † Champaign
Duncan, Herman Oscar	SS	40	* † Dix
Duncan, Neal	Agr	67½	* † Mt. Carroll
Duncan, Paul Bernard	Bus	32	* † Quincy
Duncan, William Joseph	Bus	33	* † Bloomington
Dungan, John Homer	ME	101½	* † Brimfield
Dunham, Leland Huffield	MinE		* † Atlanta
Dunkle, Florence Belle	HELAS	22½	* † Urbana
Dunlap, Callert Noble	EE	35	* † Clinton, Indiana
Dunlap, Lloyd Elmon	Agr sp (SS)	19	* † Toulon
Dunlop, Edmund Decker	Agr	61½	* † Mason City, Iowa
Dunlop, Willard Lincoln	FOM	26½	* † Pinchurst, North Carolina
Dunn, John Nicholas	Bus	34	* † Richmond, Indiana
Dunn, Laurence Alexander	FOM		* † Muskegon, Michigan
Dunn, Louis Bankler	Bus	50½	* † Hillsboro
Dunn, Roy George	LAS	22½	* † Hillsboro
Dunning, Max	IndA sp		* † Oak Park
Dunning, Sanford Frank	EE	19½	* † Dundee
Dunseth, Clara Forbes	Jnl	100½	* † Urbana
Dunseth, Ruth Irene	HELAS	93	* † Springfield
Duntley, Ruth Marian, A.B., 1920	SS	130½	* † Bushnell
Durant, Philip Samuel	Atk	41	* † Wheaton
Durham, Arthur Burnam	ME	62½	* † Kenilworth
Durham, Harold Winifred	SS	44½	* † Genoa
Durham, Mrs. Marjorie Armstrong	LAS	96½	* † Urbana
Durham, Morris David	LAS	76½	* † Bement
Durland, Edmund Newberry	Bus		* † Oak Park
Durst, Stanley Millard	EE	71½	* † West Parkfort
Dusenberry, Paul Browneller	CE	84	* † Henry
Dutier, Henry Christian	Agr	36	* † Baden Baden
Dutton, Jesse Lewis	Agr		* † Pittsfield
Duvall, Ben	Law P		* † Aledo
Du Vall, Kenneth Keith	Bans	67	* † Decatur
Duvall, Mabel Lorene	LAS		* † Belleville
Duvigneaud, Vincent Reginald	ChE	58	* † Chicago
Dvorak, Raymond Francis	Bus	65	* † Algonquin
Dwyer, Jacob	Agr	69	* † Bayonne, New Jersey
Dwyer, Margaret Mary	SS	8	* † Rock Island
Dyar, Walter Salem	FOM	96½	* † Roanoke
Dye, Alfred Thomas	LAS		* † Logan, Kansas
Dye, George Russell	Bus	19½	* † Wolcott, Indiana
Dye, Walter Church	ME	22	* † Danville
Dyer, Ethel Golden	LAS	51½	* † White Hall
Dyer, George Griffith	ME	35	* † Joliet
Dynes, Kenneth Leonidas	ME		* † Indianapolis, Indiana
Dyson, Edwin Arthur	Bus	102	* † Rushville
Dystrup, Ellen Grace	HELAS (SS)	101	* † Lemont
Eads, Henry Chester	SS	8	* † Arthur
Eagle, Isaac Orval	Chem	21	* † Champaign
Earl, Mabel Garne	LAS	33	* † Champaign
Earl, Willis Charles	RCE		* † Kansas City, Missouri
Easley, Edward Payne	Bus		* † Springfield
Eastman, Albert Reynier	AE	60½	* † Rockford
Eaton, Alvin Jasper	Voc sp		* † Beason
Eaton, Mrs. Amy Pinkerton	Agr sp		* † Urbana
Eaton, Colman	AE	57	* † Rockford
Eaton, Donald Mack	Law	47½	* † Stockton
Eaton, Helen	LAS		* † Quincy
Eaton, Lester Maurice	Chem	39	* † DuQuoin
Eaton, Ralph Melvin	Law	15	* † Clarion, Iowa
Eaton, Ruth	LAS	124½	* † Quincy
Eaton, William John	LAS (SS)	113½	* † Urbana
Eaton, William Low, Jr.	Law P (SS)	84½	* † Rockford
Ebbler, Edward William	SS	11½	* † Brighton
Ebbler, Fred William	EE	32	* † Brighton
Eberhardt, Herman Luther	Agr	41½	* † Dundas
Eberhart, Harold Clair	SS		* † Ottawa, Kansas
Ebersold, Frederick Henry	Bus		* † Riser Forest
Eberspacher, George Henry	Bus	97½	* † Pana
Ebert, George Charles	ChE	59½	* † Quincy
Ebert, Jack	ME	71½	* † Chicago
Ebner, Emil Emanuel, Jr.	EE (SS)	34	* † Atchison, Kansas
Echenique, Sylvisda Cunha	Agr sp		* † Pelotas, Brazil
Echols, Charles Randall	Bus	30	* † Springfield
Eckhart, Harold Crocker	MinE	106½	* † Bloomington
Eckstein, Henry Emiel	Voc sp	23	* † Doniphan, Missouri
Eddy, Esther Elsie	LAS		* † Streator
Eddy, Leroy John	ME		* † Oak Park
Eddy, William Henry	ME		* † Maywood
Edelman, Sara Lillian	LAS	44	* † Chicago

Edelson, Pearl	ForC	48½	* † Chicago
Eden, Royal Krebs	LAS (SS)	18	* † Champaign
Edens, William McKinley	Bus		* † Chicago
Ederer, Eugene August	Bus	30	* † Chicago
Ederer, Lothar Alfonso	IndA	126½	* † Chicago
Edgar, Martha	LAS		* † Doylestown, Pennsylvania
Edgar, Paul Thomas	Agr	30	* † Arcola
Eddie, Willis Ray	Agr	47	* † Monticello
Edman, Victor Raymond	LAS	39	* † Chicago Heights
Edmunds, Arthur Washburn	EE		* † Clinton
Edson, Robert Elmer	Accy	17½	* † Harmon
Edwards, Alice Luella	LAS		* † Chicago
Edwards, Amy Marguerite	LAS sp		* † Princetille
Edwards, Clarence Leon	SS	15½	* † Carrollton
Edwards, Elizabeth Jeannette	LAS		* † Chicago
Edwards, Ernest Milton	Agr	8	* † Tolono
Edwards, Estelle Emma	LAS	62½	* † Centralia
Edwards, Helen Anne	LAS	31	* † Chicago
Edwards, Helen Irene	HELAS		* † Ashland
Edwards, Margaret Corrine	LAS		* † Pinckneyville
Edwards, Marshall Henry	Law		* † Jerseyville
Edwards, Rachel Elizabeth	HELAS		* † Ashland
Edwards, Robert Lester	Agr		* † Rockford
Edwards, Robert William	MedP	47	* † Waukegan
Edwards, Terry Warren	ME	127	* † Jerseyville
Eenigenburg, Harry	EE		* † Chicago
Egan, Mildred Alice	LAS	51½	* † Quincy
Egbert, Russell J	Agr		* † Oak Park
Eggeman, Charles Jacob	FOM	69	* † St. Louis, Missouri
Eggleston, Eunice H	Bus sp		* † Joliet
Ehle, Josephine Minnie	ME	30	* † Indianapolis, Indiana
Ehlers, Earl Edward	AE	65	* † Mason City, Iowa
Ehrhart, Everett Harold	Bus	33	* † Decatur
Eich, Elizabeth Edith	HELAS		* † Joliet
Eichelman, Burr Simmons	Agr	68	* † Downers Grove
Eichenberger, Walter Gerster	EE	35	* † Hannibal, Missouri
Eichler, Sidney Joseph	Bus	30	* † Dixon
Eichler, Victor Nathan	Bus		* † Dixon
Eickhof, Herman Butler	Bus		* † Grand Forks, North Dakota
Eikenberry, Amos R., B.S., 1920	SS	138½	* † Flora, Indiana
Einhorn, Benjamin	ME	89½	* † Chicago
Eipper, Lloyd Vincent	AE		* † Port Byron
Eisberg, Jacob Louis	EE	34	* † Kansas City, Missouri
Eisner, Theodore Frank	Bus	101½	* † Chicago
Ekblaw, George Elbert	LAS	60	* † Rantoul
Eklund, Theodora Louise	Bus		* † Chicago
Elden, Clarence Arthur	Chem (SS)	51	* † Buffalo, New York
Elder, Albert Lawrence	LAS	15½	* † Urbana
Elder, Dorothy Louise	HELAS	62	* † Kansas City, Missouri
Elder, Velda Rosalyn	LAS (SS)	100	* † Urbana
Eldred, Charles Porter	Bus		* † Quincy
Eldredge, Jewell Rose	LAS	26½	* † Oak Park
Eldredge, Roy Elnathan	Bus		* † Chicago
Eldridge, Ferne Edmonia	HELAS (SS)	57½	* † Monmouth
Eldridge, Lloyd Earl	Bus	52	* † Wilmette
Ellett, Durwood X	AE	37½	* † Danville
Elliott, Estes Eugene	CE	55½	* † Kansas City, Missouri
Elliott, Thomas Dwight	ME		* † LaGrange
Elliott, Walter Irving	Bus	2½	* † Chicago
Ellis, Harry David	MedP	34	* † Springfield
Ellis, Maurice Jeffries	MedP	2	* † Allamont
Ellis, Nina Elizabeth	HEAgr		* † Lovington
Ellis, Robert Bertram	SS	8	* † Broughan
Ellison, Cleyburne Burton	EE		* † Celina, Ohio
Ellman, Samuel Maurice	EE	66½	* † Chicago
Elrod, Donald Stearns	LAS		* † Kansas City, Missouri
Elzas, Lloyd L	LAS	24	* † Chicago
Emerson, Edith Ann	SS	7½	* † Stonington
Emmerling, Carl James	MedP	37½	* † Pekin
Emory, Alan	Bus	35	* † Oak Park
Emrich, Russell Clarence	Bank		* † Casey
Emrich, William Wayne	Agr	54	* † Casey
Emrick, John Jacob	Bus	60½	* † Aledo
Ems, Clarence Everet	Agr	88	* † St. Joseph
Endres, Arthur Fred	LAS	35	* † Canton
Endres, Albert Adam	Agr	41	* † Canton
Engberg, Felix John	Bus	32	* † Chicago
Engel, Mabel Ida	Bus	3	* † Stewardson
Engelbrecht, Herman Samuel	Bus	68½	* † Libertyville
Engelbrecht, Howard Frederick	Accy	33	* † Elgin
Engelhardt, Christian Ferd	MedP		* † Baldwin
Engelhardt, Henry Adolph	Bus	66	* † Elkhart, Indiana
Engelhardt, Veva Bernice	HEAgr	72	* † Spencer, Iowa
Engelhardt, Max Dissette	ChE	35	* † Glencoe
England, Fae Erma	LAS	24	* † Havana
England, Thomas Harold	Law		* † Olney

Englar, Eugene Field	Bus	4	* † Chicago
Engle, Doris Dorothea	LAS	63	* † Freeport
Engle, Lawrence Washington	Agr (SS)	100½	* † Urbana
Engle, Omer Orville	Voc tss		* † Huntington, Indiana
English, Elmer David	Bus	45	* † St. Louis, Missouri
English, George Washington, Jr.	Bus (SS)	103½	* † Urbana
English, Mark Wenning	ME		* † Chicago
English, Thomas Farris	Bus	41	* † Urbana
English, Virgil Carroll	MedP		* † Urbana
Ennis, Esther	LAS	27	* † DeLand
Enochs, Artelia Maude, A.B., 1912	Lib		* † Creston, Iowa
Enright, Edward Milton	CE	46	* † Chicago
Enyang, Hsu Chu	Bank		* † Shanghai, China
Enyart, Melville York	ChE	116½	* † Chicago
Enyart, William Ralph	ME	34½	* † Connersville, Indiana
Eppel, Clayton Benjamin	Ath sp	37	* † Woodstock
Eppinger, Marie Anna	Ed	81½	* † Quincy
Epps, Thad Chandler	Arch	61	* † Red Oak, Iowa
Erb, Donald Milton	Bus	63	* † Urbana
Erickson, Aletta Louise	Jnl	50½	* † Chicago
Erickson, Drusilla Vera	SS		* † Moline
Erickson, Emory Theodore	ChE		* † Chicago
Erickson, Erick	ME		* † Chicago
Erickson, Erick Gustaf	ME	73½	* † Moline
Erickson, Iver	CE		* † Kansas City, Missouri
Erickson, Ralph Edward	CE	66	* † Chicago
Erickson, Willard Norman Le Roy	Bus		* † DeKalb
Ericson, Dewey Arthur David	AE	82½	* † Chicago
Ericson, Walter Milfred	AE	40	* † Huron, South Dakota
Ernest, Helen Orpha, B.M., 1920	Mus irr	151	* † Urbana
Ernest, Nellie Edith	LAS (SS)	86½	* † Urbana
Errant, Florence Morey	HELAS (SS)	40½	* † Urbana
Errant, James Whitcomb	Agr sp	41	* † Urbana
Erwin, Lewis Dewey	Ath	31½	* † Macomb
Ersinger, Helen Louise	LAS		* † Kankakee
Eslinger, Lydia Eleanor	LAS	32	* † Farmington
Eslow, Charles Kenneth	MedP	31½	* † Chicago
Esmond, Dale Brown	Agr	34	* † Ottawa
Espy, Ralph Miller	Bus	34	* † Palestine
Esslinger, Paul Henry	LAS	63½	* † Rushville
Essmuller, Arthur Frederick	ME		* † St. Louis, Missouri
Etheridge, Frances Dorothy Locke	LAS (SS)	34½	* † Vincennes, Indiana
Etnyre, Leon Vernon	Ath	8	* † Elgin
Ets Hokin, Cobert	LaseP	16½	* † Chicago
Ettinger, Charles McKinley, B.S., 1917	Bus irr	137	* † Bourbon, Indiana
Evans, Burrell Edgar	SS	8½	* † Omaha, Nebraska
Evans, Eugene Allen	EE	56	* † Aurora
Evans, Hazel, A.B., 1907	Lib		* † Cedar Rapids, Iowa
Evans, Helen	LAS	27	* † Wilmette
Evans, Henry Bowman	Bus	34½	* † Roscoe, Iowa
Evans, Henry Herbert	Bus (SS)	65½	* † Aurora
Evans, John Ellsworth	MedP		* † St. Louis, Missouri
Evans, John Harwood	Agr	36	* † Bloomington
Evans, Marguerite Rebecca	SS	6	* † Peoria
Evans, Maurice Willard	Bus	113	* † Matoon
Evans, Philip Gardener	Agr (SS)	51	* † Davenport, Iowa
Evans, Wayland Hoyt	Bus	35	* † Riverside
Evans, Wayne Carl	AE		* † Elkhart, Indiana
Evans, William Harold	Jnl	82	* † South Bend, Indiana
Eveland, Harmon Edwin	LAS	115½	* † Moccasin, Montana
Everett, Alice Lois	SS	8½	* † Waterville
Everett, Bessie	MedP	60	* † DeKalb
Everhart, Philip Hiram, A.B., 1915	Aer irr	132	* † Champaign
Eversole, Harold Baker	Bus	41½	* † Hinsboro
Eversole, Lenore Lee	LAS (SS)	69½	* † Champaign
Eversole, Mildred Elizabeth	LAS (SS)	2	* † Champaign
Eversole, Miriam Grace	SS	4	* † Hinsboro
Eversole, Selma Anna	LAS	89½	* † Charleston
Everts, Edgar Wendell	SS		* † Corning, New York
Ewald, Ralph Waldo	Voc tss		* † Mt. Carmel
Ewert, Earl Ernest	MedP		* † Chicago
Ewing, Arthur Glenn	ChE		* † St. Louis, Missouri
Ewing, Claude Henry	CE	65	* † Benton
Ewing, Dean McLeod	Agr	50½	* † Baldwin
Ewing, Helen Vivian	Mus		* † Champaign
Ewing, Herbert Nathaniel	Bus (SS)	100½	* † McLean
Ewing, James Whitney	EE		* † Neoga
Ewing, Wallace Henry	LAS sp		* † Champaign
Eyeshymen, Dorothy Adele	Bus	65½	* † Niles, Michigan
Eyeshymen, Ethel Mary	LAS	56½	* † Oak Park
Eyman, N-pha Mae	LAS	21	* † Argenta
Fabb, Charles Alfred	Agr		* † Washington C. H., Ohio
Fabry, Alex	ChE	110½	* † Chicago
Fadgen, Thomas Joseph	ChE sp		* † Clinton, Massachusetts
Fagan, Arthur S	Agr	36½	* † St. Charles
Fagerburg, Rudolph Edward	MinE	50½	* † Paxton



Fahnestock, Maurice Kendall	ME	7½	* † Edwardsville
Fair, Florence Leone	LAS	65½	* † Chrisman
Fairbairn, William Bryan	CE	110	* † Joliet
Fairbanks, Laurence Bowie	Bank	80	* † Varna
Fairfield, Edith Louise	Bus	99½	* † Chicago
Fairfield, Mildred Knox	LAS	15	* † Chicago
Falkenberg, George Viggo	Agr	84	* † Chicago
Falkenberg, Petra Eleanor	LAS		* † Chicago
Falkin, Bernice Werly	SS	8	* † San Jose
Fallon, Patrick John	Bus	30½	* † Urbana
Farley, John Edgar	SS		* † Urbana
Farmer, Harry Illinois	LAS	21	* † Harrisburg
Farmer, Pauline	Bus	5	* † Farmer City
Farrall, Byron Huntley	SS	73	* † Oberlin, Ohio
Farrand, Elbridge Kitchel	Bus		* † Griggsville
Farrell, Charles Breyer	EE	93	* † Chicago
Farrell, William James, Jr.	ChE	23	* † Chicago
Farrow, Tiera	LAS (SS)	18	* † Kansas City, Missouri
Faulk, Harry Lee, A.B., 1920	Law (SS)	7½	* † Brownsville, Texas
Faulkner, Harry Archer	SS	19½	* † Checotah, Oklahoma
Faunce, John Clement	Jnl	99½	* † Casey
Faust, Chester Emmanuel	Accy		* † Charleston
Fay, Douglas Richards	Bank		* † Urbana
Fearer, Ruth Naomi	Bus		* † Oregon
Fearing, Kenneth Flexner	LAS		* † Oak Park
Fechtman, Hugh William	Bus	33	* † Indianapolis, Indiana
Feickert, Arthur Julian	EE	133½	* † Belleville
Fedderson, Esther Carolyn	LAS irr		* † Mt. Olive
Fee, Bessie Mae	LAS	50½	* † Lawrenceville
Fee, Lawrence George	SS	42	* † Champaign
Feek, John Lester	Lib sp (SS)		* † Elliott
Fehr, Harold Lester	EE		* † Normal
Fehrenkamp, Winifred, B.L.S., 1912	LAS irr	17½	* † Urbana
Feldman, Abraham	LAS	53½	* † Chicago
Feldman, David Ira	Bus	½	* † Chicago
Felker, Hugh Wilson	Agr		* † Leaf River
Fellenstein, Urban	Accy	34	* † Waterloo
Fellers, Hazel Inez	LAS	30	* † Fremont, Iowa
Fellows, Manley Fording	MedP	5	* † Belvidere
Fellows, Roger Lee, Jr.	EE		* † LaGrange
Felt, Arthur Webster	ChE	33	* † Kansas City, Missouri
Felton, Leah Pinette	SS	41	* † Mendota
Felton, Lurton Eugene	Bus	36	* † Mendota
Felts, David Virgil	Jnl		* † Marion
Fencken, Claude Harry	Bus	73½	* † Buckley
Fencken, Lee Orion	Accy (SS)	18	* † Buckley
Fencken, Rube Jacob	Bus	6½	* † Westfield
Fender, Owen Dewey	LawP	128	* † Danville
Fendley, Maurine Elizabeth	SS		* † Weyauwega, Wisconsin
Fenelon, Eunice Sarah	LG	56½	* † Shansi, China
Feng, Chi	Bank		* † Berwyn
Fenn, George Prentice	ME (SS)	102½	* † Savanna
Fennie, Ever Jerry	AE		* † Chicago
Fera, Harriet Amelia	LAS	3	* † Dixon
Fera, Harriet Hannah	Bus	42	* † Dixon
Ferguson, Esther Hannah	Bus	70	* † DeKalb
Ferguson, Leila Greta	EE	25	* † Tuscola
Ferguson, Perry Nichols	EE		* † Champaign
Ferguson, Randon	LAS		* † Chicago
Ferguson, Robert Hugh	LAS	68	* † Terre Haute, Indiana
Fern, Lucile Charlotte	LAS		* † Urbana
Ferree, Eva Matilda	CE	6	* † Princeton
Ferree, George Bennett	Bus		* † San Francisco, California
Ferris, Hugh Harrison	ME	36	* † Onawa, Iowa
Ferro, Victor	Ath	72½	* † Elkland, Pennsylvania
Fessenden, Douglas Albert	CerE	22	* † Chicago
Fessler, Albra Henry	Ins	151½	* † Champaign
Feurer, Milton Abraham	LAS	35	* † Slater, Missouri
Fidler, Iona Mae	AE	31	* † Chicago
Field, David Edwards	Agr		* † Chicago
Field, Dayton	AE		* † Urbana
Field, Harford	Mus	62	* † Bloomfield, Indiana
Field, Marion Russell	LAS	40½	* † Palestine
Fields, David Wesley	Bank	64	* † Vincennes, Indiana
Fife, Harold Ambrose	LAS	66	* † Milwaukee, Wisconsin
Fillingham, Enid	Accy	20	* † Carmi
Filut, Frank Felix	Bus	7	* † Kokomo, Indiana
Finch, Flavil Paul	SS	66½	* † Chicago
Findlay, Grace Cecile	SS	33	* † Sparta
Finkelstein, Isadore	ChE	91½	* † Westfield
Finley, Floyd McKelvey	Agr	75½	* † Champaign
Finney, Dorothy	LAS	35	* † Urbana
Finney, James Thomas	LAS	106½	* † Robinson
Piock, Ernest Franklin	ChE		* † Green Valley
Pirebaugh, Raymond Sims	Agr	33	* † Chicago
Pirth, Charles Henry	ME		
Fischer, Maurice	LawP		

Fischer, Raymond Plummer	Bus		* † St. Charles
Fish, Thelma Lillian	SS	6	* Benton
Fish, Vivian Mary, A.B., 1920	SS	137	* Benton
Fisher, Charles Buhrman	AE		* † Springfield
Fisher, Charles Kendall	IndA	32	* Park Ridge
Fisher, Clarence John	Law	57	* † Chicago
Fisher, Clyde Lawrence	ChE	8	* † Watertown, New York
Fisher, Delzon Long	Ath		* † Clarence, New York
Fisher, Dorothy Moss	Jnl		* † St. Louis, Missouri
Fisher, Ellis Gentry	EE		* Hannibal, Missouri
Fisher, Ferris Earl	Agr	104	* † Litchfield
Fisher, La Verne	ME		* † Woodstock
Fisher, Mrs. Martha Menardeau	LAS sp		* Champaign
Fisher, Richard Ellis	Jnl	16	* † Chicago
Fisher, Richard Stoner	Chem	77½	* † Champaign
Fisher, Russell William	Chem		* Peoria
Fishman, Maurice	Bus	37½	* † Springfield
Fiske, Herbert Dick	Bus sp		* † Champaign
Fitch, Horatio May	CE	60	* † Chicago
Fitch, Hugh	ME	95	* † Greenup
Fitch, Mabel L.	LAS	33	* † Rockford
Fitch, Morgan Lewis	Jnl	69½	* † Peebles, Ohio
Fitzge, Erwin Harry	Chem	18	* † St. Louis, Missouri
Fitzgerald, Eugene Martin	Bus		* † Clark's Hill, Indiana
Fitzgerald, Nellie	LAS		* † Maple Park
Fitzgerald, Thomas	REE	35½	* † Trenton, Missouri
Fitzhenry, Harry Richard	Bus	1	* † Gibson City
Fitz Hugh, Greene Smith	Bus	121	* † Spottsville, Kentucky
Fitzpatrick, Dorothy Lucile	HELAS	66½	* Chicago
Fitzpatrick, James Levi, A.B., A.M., 1919, 1920	SS		* Rock Island
Fitzsimmons, Richard Michael	CE	9½	* Chicago
Flack, Howard Romaine	Bus	28	* Cairo
Flack, Russell Allen	MedP	32½	* † Boswell, Indiana
Flagg, Elinor Bertha	Ed	95	* † Moro
Flagg, Frank	Bus	4	* † Williamsville
Flagg, Katherine Hehner	HEAgr		* † Moro
Flaherty, Jerome Kendall	Bus	61	* † Hubbard Woods
Flanders, Faye Fern	LAS		* † Rochelle
Flanders, Seth Webster	CE	25	* † Aurora
Flanagan, John Andrew	Agr	34½	* Champaign
Fleck, Arthur William	Arch	107	* Indianapolis, Indiana
Fleming, Arthur Isaac	Agr	94	* † Chicago
Fleming, Geneva	Arch	52	* † Champaign
Fleming, Gordon Reed	Agr	32	* † Wilmette
Fleming, Leland Addis	IndA	45	* † Peoria
Fleming, Lillian	Mus sp		* † Urbana
Fleming, Marion Blair	Mus (SS)		* † Urbana
Fleming, Mildred Dorothy	LAS	64½	* Sullivan
Fleming, Miriam Lois	LAS		* † Marseilles
Fleming, Nellie Viola	ComT	55	* † Toulon
Fleming, Rex	Bus	49	* † West Lebanon, Indiana
Fleming, Richard Hill	Bus		* † Chicago
Fleming, Stephen James	Acr	107	* † Chicago
Flesher, Clare Edward	LawP	64	* † Taylorville
Fletcher, Benjamin Howard	Bank	36	* Champaign
Fletcher, Gordon Van Buren	LAS	33	* † Evansville, Indiana
Fletcher, James Johnson	Bus	31	* Maywood
Fletcher, Paul Le Roy	Bus		* † Lebanon, Indiana
Fletcher, Ralph Emerson	Bus	95½	* † Morris
Fletcher, Robert Harry	LawP	98	* † Morris
Flick, Augustine Andrew	EE	85	* † Chicago
Flickinger, Milo Potter	CE	95	* † Wichita, Kansas
Plinn, Glenn Sherwood	Agr		* † Franklin, Indiana
Plint, Gordon Monroe	Agr	35	* † Belleflower
Plitcraft, Harold Wilson	Bus		* † Oak Park
Flom, Elizabeth Edda	LAS		* † Urbana
Flom, George Reginald	ME	36	* † Urbana
Flora, Mary Jane	SS	9	* Kokomo, Indiana
Floro, Martiniano	ME		* † Manila, P. I.
Flostrom, Victor August	ForC	71	* Morrison
Flournoy, William Farrar	LAS		* † Independence, Wisconsin
Flowers, Violet Vinetta	Mus (SS)	53	* † Champaign
Flynn, James Harding	Arch		* Quincy
Flynn, Robert Francis	MinE	4	* Robinson
Foe, Forrest Hefner	AE		* † Bourbon, Indiana
Foeborg, Carl Nelson	ME		* Hubbard Woods
Fogelson, Rose June	Bus	33	* † Chicago
Fogelson, Ernest Stanley	Law	63½	* † Indianapolis, Indiana
Fogler, Ralph Waldo	ChE (SS)	103½	* † Champaign
Foley, Edward Carl	Agr	67½	* † Tennessee
Foley, John Leo	SS	7½	* Medford, Massachusetts
Folk, Mildred Lauretta	LAS	113	* † North Liberty, Indiana
Folkers, Clarence Emil	LAS	4	* † Frankfort
Folkers, Florence Mildred	HEAgr (SS)	37½	* † Frankfort
Folkers, Herbert Peter	Law	24½	* † Frankfort

Follick, Roscoe Glen	Bus		* † Saybrook
Foltz, George Albert	SS		* Galveston, Texas
Foltz, Hermann	EE	37½	* Decatur
Fonseca, David	CE (SS)	48½	* Guadalajara, Mexico
Fonseca, Manuel	Agr (SS)	108½	* Callao, Mexico
Foran, Arthur Frederick	Bus	40%	* † Mt. Vernon
Forcum, Lois B	LAS		* † Paris
Ford, Kenneth Arthur	Agr	83	* † Chicago
Ford, Lee Harold	Agr	51½	* † Greenfield
Ford, S B, Jr.	EE		* † Rockdale, Texas
Ford, William Kenneth	SS	69½	* † Western Springs
Fordyce, Allmon Grant	AE	61½	* † Kansas City, Missouri
Foreman, Harriette Lucile	Bus	58	* † Charleston
Foresman, Ralph Elsworth	LawP	33	* † Lafayette, Indiana
Forester, Denzel Victor	Bus		* † Casey
Forker, Frances Adaline	HELAS (SS)	66½	* † Urbana
Fornoff, Charles Wright	LawP	74	* † Pana
Forsaith, Franklyn Blake	Agr	17	* † Rockford
Forslew, Ella	LAS	32	* † Chicago
Forslew, Johannes Herman	EE	35	* † Chicago
Forsythe, Stanley Davis	EE	42	* † Chicago
Forté, Chauncey Owen	ME	39½	* † Palestine
Fortier, Leo Reynold	LAS	37½	* † Tulsa, Oklahoma
Fortney, Bonnie Pearl	LAS (SS)	78	* † Casey
Forward, La Fayette Laurence	EE	4	* † Binghamton, New York
Foss, Christian Magnus	LAS	21½	* † Chicago
Foss, Le Roy Merrill	Agr (SS)	94½	* † Freeport
Fosse, Agatha Ruth	Jnl		* † Chicago
Foster, Alfild	HEAgr	60	* † Chicago
Foster, Charles Vernon	LAS	22½	* † Mt. Carroll
Foster, Clara Louise	MedP		* † Chicago
Foster, Claudia Woolard	SS	5½	* † Galatia
Foster, Edward Mern	Accey	28	* † Danville
Foster, Elliott Eugene	LAS	64	* † Chicago
Foster, George Frank	LAS		* † Stroud, Oklahoma
Foster, Gervin George	Arch	123½	* † Menominee, Michigan
Foster, Grace Marion	LAS (SS)	68	* † Champaign
Foster, Isaac Owen	Ed (SS)	80	* † Urbana
Foster, James Edward	Jnl	32	* † Chicago
Foster, John Alan	Bus	30	* † Attica, Indiana
Foster, John McCullough	Bus	37	* † Kansas City, Missouri
Foster, Kenneth	Bus	32	* † Steward
Foster, Laurence Hafner	Bus	36	* † Oak Park
Foster, Louis Omar	Bus	42	* † Vermont
Foster, Louise Bradford	Bus		* † Maywood
Foster, Rhoda Wilda	LAS	95½	* † Tipton, Indiana
Foster, Sydney Percy	Chem	87½	* † Milwaukee, Wisconsin
Foster, Ulric Clarence	EE	105	* † Monroe Center
Fought, Harry Edison	EE		* † Princeton, Indiana
Fouts, Robert Leo	Bus		* † Peru, Indiana
Fowler, August Lincoln	Law		* † Marion
Fowler, Frances Cleveland, A.B., 1919	SS	135%	* † Marion
Fowler, George Leonard	C&L	23	* † Frankfort, Kentucky
Fowler, James Hugh	Jnl		* † Palestine
Fowler, Lottie Viola, A.B., 1920	SS	130	* † Centralia
Fowler, Marian Roberta	Jnl	7	* † Urbana
Fowler, Richard Randolph	EE	58½	* † Chicago
Fox, Arthur Lawrence	ChE	61½	* † Glencoe
Fox, Gus	CE sp		* † Chicago
Fox, Helen Evelyn	HELAS		* † Shelbyville, Indiana
Fox, Herbert Rolfe	EE	33½	* † Sparta, Michigan
Fox, John Perry	CE		* † Chicago
Fox, Herschell	Agr	48½	* † Chicago
Fox, Lois Evelyn	LAS (SS)	8	* † Hookdale
Fox, Mildred Louese	Bus		* † Wilmette
Foyt, William Le Verne	ChE	43½	* † Galena
Frace, Dorothy Clarinda	HELAS	26	* † Ironwood, Michigan
Francis, Chester Arthur	Ath sp	38	* † Freeport
Francis, Horace Jay	ForC ssp	8	* † Ft. Wayne, Indiana
Francis, John Edward	FOM		* † New Lenox
Frankenberg, Julian Carl	Bus		* † Rockford
Frankenfeld, Justus Carl	EE		* † St. Charles, Missouri
Franklin, Burns Maurice	Ath	22	* † Villa Grove
Franklin, Donald Cameron	Bus		* † Spring Valley
Franklin, Ruth Anne	LAS	17	* † St. Louis, Missouri
Franssen, Walter Sigfred Ephraim	EE sp	38	* † Woodhull
Frantz, Helen Louise	HELAS	63½	* † Lafayette, Indiana
Fransen, Frank Clarence	ME sp (SS)	20	* † Rockford
Fraser, Donald Thornton	Bus	30	* † Joliet
Freark, Clarence Hobart	Bus	45	* † Champaign
Freark, Manila Bay	Bus sp (SS)		* † Champaign
Frederick, Inez Anna	HEAgr	176	* † Copley, Ohio
Frederick, Joy Thompson	Agr		* † Walnut
Frederick, Vernon Ross	ME		* † Copley, Ohio
Frederiksen, Henrik Axel	Bus		* † Rockford
Frederickson, Alice Grindley	Jnl	22	* † Champaign

Frederickson, John Brownlee	LAS	63½	* † Oklahoma City, Oklahoma
Frederickson, Joseph Robert	Accy		* † Champaign
Fredricks, Charles Raymond	ME		* † Hinsdale
Freeman, Harry Duke	SS	79	* † Iuka, Kentucky
Freeman, Helen Busey	LAS	86	* † Urbana
Freeman, John Davies	Agr	8	* † Needham, Massachusetts
Freeman, Roy Clinton	SS	11½	* † Homer
Freese, Bernice Leone	Bus	33	* † Ogden
French, Mildred A	LAS		* † Keokuk, Iowa
French, Thaddeus Joseph	SS	9	* † Perryville, Missouri
Frey, Ireta Grace	LAS	100	* † DePue
Frick, Raymond Lawrence	ME sp		* † Urbana
Friebel, Carl Gustav	Arch	106½	* † Cedar Rapids, Iowa
Fried, Grace Frieda	Bus	12	* † Chicago
Friedman, Adolph Max	ChE	63	* † St. Louis, Missouri
Friedman, Benjamin	Bus	45	* † Chicago
Friedman, Harold David	Bus	13½	* † Chicago
Friedman, Paul Sydney	C&L	16½	* † Chicago
Friedrich, Edgar John	Bus	100	* † St. Charles, Missouri
Friend, Gertrude Elizabeth	HELAS	34	* † Chicago
Frier, Pauline Chapman	LAS	103	* † Benton
Frier, Pearl Elizabeth	LAS	65½	* † Benton
Fries, Shirley Margaret	LAS		* † Chicago
Frisbee, Virginia Dee	SS	85½	* † Bushnell
Frisch, Martin	ME	117	* † St. Louis, Missouri
Frisker, Arthur Wilbur, Jr.	Bus sp	21½	* † Moline
Fristoe, Carmene Mildred	LAS		* † Pontiac
Frith, Marjorie Francis	HEAer	57½	* † Kanakakee
Fritts, J. Ralph	Jnl	63	* † Cowden
Fritts, James Edwin	Chem	64½	* † Cowden
Froberg, Gerald Alfred	CE	69½	* † Chicago
Froehly, Arthur Gustav	IndA	118	* † St. Louis, Missouri
Frommann, Theodore Emil	Agr	63	* † Chicago
Frost, Kenneth Thomas Williams	Ins	106	* † Rantoul
Frost, Oscar	CE	97	* † Huron, South Dakota
Fruland, Ruth Myrtle	LAS	83½	* † Sheridan
Frutiger, Gustav Theodore	Bus		* † Olney
Fry, Edna Belle	SS		* † Marengo, Iowa
Fry, Florence Wilma	LAS		* † Chicago
Fry, Grace Bernadine	HELAS (SS)	69½	* † Champaign
Frye, Howard Pascal	Agr	27	* † Capron
Frye, Margaret Elizabeth	LAS	32	* † Elkhart, Indiana
Frye, Vernon Thomas	Bus		* † Paris
Fuchs, Henry King	Bus		* † Davenport, Iowa
Fuentes, Vicente Sanagustin	ME	34	* † West Negroes, P. I.
Fues, Fred Herman	CE		* † Chicago
Fuhr, Clara	Agr	92	* † Warrensburg, Missouri
Fulks, Nora M	LAS	18½	* † Champaign
Fuller, Constance Ailliard	LAS		* † Tuscola
Fuller, Ivan Walter	Aer	28	* † Oxford, Indiana
Fuller, James Donald	CE	32	* † Rockford
Fuller, Juanita Ulella	LAS	11	* † Chicago
Fuller, Lorene Jeania	LAS	35½	* † Princeton, Missouri
Fuller, Terry Fred	LawP	37½	* † Carmi
Fullerton, Greer Gilbert	Bus	30	* † Bone Gap
Fulton, George Leonard	Bus	62½	* † Hartford City, Indiana
Fulton, Paul Cedric	Bus	28	* † Dixon
Fulton, Zelda Helene	LAS	59½	* † LaGrange
Fultz, Lileth Cleo	Bus	14	* † Fairbury
Fulwider, James Hensen	Jnl	112	* † Freeport
Funk, Carl Raymond	MinE	42½	* † Flat Rock
Funk, Eugene Duncan, Jr.	Agr	48½	* † Shirley
Funk, Harold Leslie	EE	29	* † Champaign
Funk, Irvin Milton	Bus (SS)	101½	* † Kerman
Funk, John Christian	Bus	38	* † Danville
Funk, Marv Adell	HEAgr	22	* † Urbana
Funk, Mary Cassandra	Jnl	34	* † Bloomington
Funk, Stanley Louis	LAS	10	* † Manchester
Fuqua, Clarence Nathan	EE	49½	* † Bethany
Furness, Carl Nathaniel	MedP	33½	* † Sullivan
Furr, Kenneth Cecil	Bank	60½	* † Genoa
Gaarder, Reidar Bastian	FOM	152	* † Kristiania, Norway
Gabrielson, Francis Alva	FOM	33½	* † Galesburg
Gaddis, John William	ME	19½	* † Olney
Gage, Fred Leonard	ME	23	* † Wilmette
Gaines, Earl Fred	SS	8	* † Milwaukee, Wisconsin
Gaissler, Caio Graccho de Lonza	EE		* † Brazil, South America
Galbraith, Robert	RCE	44	* † Pine Bluff, Arkansas
Galbreath, Robert Adam	EE	42	* † Pana
Gale, Edwin Oscar	LAS (SS)	51½	* † Oak Park
Gallagher, Dan Angelo	Accy	37	* † Clinton
Gallagher, Edgar French	ME		* † Marion
Gallagher, Fred Barron	IndA	98½	* † Champaign
Gallenbeck, Oscar Carl	Chem	27	* † East St. Louis
Galletiere, Florence Gertrude	LAS	100	* † Morrison
Gallimore, Otis James	Bus		* † Cartersville

Gallion, Agnes Mae	HELAS	77½	*	Indianapolis, Indiana
Gallion, Arthur Banta	Arch		* †	Urbana
Galloway, Herbert James	Accy	74	*	Indianapolis, Indiana
Galster, Alma Lydia	SS	119		Tower Hill
Galvin, Vincent Kennard	SS	6½		Assumption
Gamage, Harry G	Ath		* †	Macomb
Gamble, James Cyril	Ath		* †	Champaign
Gammage, Frederick John	Flor	58	* †	London, Canada
Gansbergen, Richard Henry	Bus (SS)	66½	* †	Chicago
Gant, Virgil Arnett	LAS	98½	* †	Lebanon
Gard, Mary	HELAS	27	* †	Urbana
Gard, William Lloyd	Agr (SS)	49½	* †	New Canton
Gardiner, Margaret Farmer	LAS		* †	Chicago
Gardner, Franklin Truesdell	Chem		* †	Tulsa, Oklahoma
Gardner, Homer Frank	EE	31½	* †	East St. Louis
Gardner, J Paul	Agr		* †	Urbana
Gardner, Junius Raymond	CE	70	* †	Rockford
Garey, Luther Thomas	ChE	33	* †	Wilmington
Gargan, Joseph Edward	Ath		* †	Simsbury, Connecticut
Garland, John Courier	EE		* †	Dubuque, Iowa
Garman, Eliza Bonita	RA (SS)		* †	Urbana
Garman, Horace Bryan, A.B., 1919	Law	41	* †	Urbana
Garman, Tom McWilliam	Ath	7½	* †	Urbana
Garms, Harold Henry	MinE	37	* †	Charles City, Iowa
Garrett, Everett Ernest	SS	6		Neoga
Garrett, Sherman Scott	LAS (SS)	110	*	Champaign
Garrison, Mark Anthony	LawP	24	* †	Rushville
Garity, Edward Daniel	ChE	34½	* †	Wheaton
Garth, James William, Jr.	Bus	80	*	Beaumont, Texas
Garth, Thomas Tyrrell	Bus	33	* †	Beaumont, Texas
Garvey, Benjamin St. John	ChE	101½	* †	Chicago
Garvin, Noah	LAS (SS)	48½	* †	Champaign
Gasen, Sarah	HELAS		* †	Virren
Gaskins, Geanetta Gertrude	LAS	26	*	Harrisburg
Gasthoff, Earl Wilhelm	Bus	2½	* †	Danville
Gaston, Helen Phebe	HELAS		* †	Champaign
Gates, Alicia Wilhelmina	LAS sp		* †	Worcester, Massachusetts
Gates, Cecil Elmer	Agr	66½	* †	Tuscola
Gates, Clyde E	MedP	33	*	Harrisburg
Gates, Natlan Phillips	LAS	6½	* †	Chicago
Gathany, William Van Dervoort	Bus	26	* †	Kankakee
Gathercoal, Norris Morgan	Agr		* †	Oak Park
Gauger, Earl Victor	Arch	36½	* †	Charles City, Iowa
Gault, Louis	CE	106	* †	Chicago
Gaumer, Everett Hale	Bus	8	* †	Danville
Gay, John Wike	Agr		*	Rockport
Gay, Richard Henry	EE	16½	*	Portland, Arkansas
Gay, Sara Lettie	HELAS	66½	* †	Rockport
Gayer, Elsey Jordan	LAS	79½	* †	Monmouth
Gayle, Virginia Gordon	HELAS	100	* †	St. Louis, Missouri
Gearin, Elmer Franklin	Bus		* †	St. Louis, Missouri
Gebhardt, William Henry	Bus		* †	Chicago
Gee, Charles Hartwell Shelley	CE	37	* †	Rockford
Gee, Guy Kenney	Agr	29	* †	Paxton
Gehant, Edmund Walt	Agr	16	*	Dixon
Gehlbach, Lee	IndA	6	* †	Beason
Gehrtr, Rollin Laurence	ME	36	* †	Rantoul
Geiermann, Louis Joseph	CE	112	* †	Carleton, Michigan
Geiger, Edwin Stein	Agr sp	40	* †	Mt. Carmel
Geipel, Maxwell Elvertton, Jr.	Bus	33	*	Aurora
Geiss, Fred Frank	Bus	63½	* †	Harvey
Geiss, Marie Gertrude, A.B., 1920	SS	132½	*	Los Angeles, California
Geist, Florence Esther	LAS	33	* †	Chicago
Gellert, Anita Mary Ann	LAS	33½	* †	Chicago
Gellert, Charlotte Marguerite	Bus	3	* †	Chicago
Gemmill, Arthur Vernon	ChE	107	* †	Freeland, Missouri
Genung, Arthur Lawrence	LAS	93½	* †	Chicago
George, Lovell Watkins	Law	4	* †	Olney
George, Robert Slocum	LG		* †	Painesville, Ohio
Geraghty, E Moreland	LAS	7	* †	Champaign
Gerard, Grace Bryan	HELAS	65	* †	Hadley
Gerdas, William Frederick, Jr.	CE		* †	Quincy
Gerhardt, Royal Matthew	AE	35	* †	Brookfield
Gernon, Robert Joseph	MedP		* †	Kankakee
Getchell, Myron Warren, A.B., 1911	Lib		* †	Eugene, Oregon
Gettel, George Henry	EE	42	* †	Fisher
Gettel, Oliver Jacob	LAS	22½	*	Fisher
Geupel, Alan Louis	Bus		*	Evansville, Indiana
Gher, Ralph Giles	CE	74½	* †	Allendale
Gher, Reginald Owen	Accy	33	* †	Allendale
Gholson, Dallas Texas	Bus	28½	*	Broughton
Giacomelli, Geno John	EE		* †	Ladd
Gibb, Harold Arthur	ChE	26	* †	Columbus, Ohio
Gibbon, Karl Malcolm	LAS	61½	* †	Arthur
Gibbons, Gordon Robert	ChE		* †	Chicago
Gibbs, Douglas James	LAS	36	* †	Chicago

Gibbs, Edward Lee	ME sp	41	* † Chicago
Gibbs, Wayne Fulton	Accy (SS)	92½	* † Champaign
Gibson, Charles Donald	Accy		* † Aledo
Gibson, Ellen Josephine	LAS		* † Chicago
Gibson, Genevra Bush	LAS		* † Sheldon
Gibson, George William	Bus	1	* † Springfield
Gibson, Helen Elizabeth	LAS	32	* † Springfield
Gibson, James Dick	Bank	105½	* † Muskogee, Oklahoma
Gibson, John McClure	Agr (SS)	42½	* † Atlanta, Georgia
Gibson, John Thomas	Bank	63	* † Muskogee, Oklahoma
Gibson, Ruth Mae	SS	3	* † Urbana
Gidinghagen, Florence Lillian	LAS	64	* † Kansas City, Missouri
Giehler, August Albert	Bus	22½	* † Ottawa
Giese, Esther Aline	LAS	35	* † Champaign
Gieseke, Florence Louise	LAS		* † Chicago
Giffin, Mary Ona	SS	8	* † Decatur
Gift, Myrven Frank	Bus (SS)	65	* † Peoria
Gilbert, George Gale, Jr.	Law (SS)	56	* † Mt. Vernon
Gilbert, Helen Gale	LAS	59	* † Mt. Vernon
Gilbert, Judson	LAS		* † Cairo
Gilbert, Marvin Stewart	Bus		* † Chicago
Gilbert, Una Irene	LAS	31	* † Crystal Lake
Gilbreath, Barbara Marie	LAS		* † Watseka
Gilbreath, George Francis	Bus	37½	* † Watseka
Gilchrist, Theodore, Jr.	Bus	34	* † Crescent City
Gill, Buford Harry Elledge	Accy	12	* † Paris
Gill, Harriett Roberta	Bus (SS)	35	* † Urbana
Gill, Marie Vivian	LAS		* † Fayetteville, Arkansas
Gillam, Kathryn Luola Frances	Mus	28	* † Chicago
Gillen, Janice Marie	HELAS	102½	* † Beardstown
Gillen, Mildred Janet	HELAS	57½	* † Berwyn
Gillespie, Frank Stanley	Bus	32	* † Springer, New Mexico
Gillespie, Ruth Elizabeth	HELAS		* † Pittsfield
Gillette, William Henry	Bus	60	* † Urbana
Gillham, Charles Elmer	Agr	49	* † Edwardsville
Gillooly, Edna Everetta	SS	8	* † Mt. Carroll
Gilman, Alfred Trusedell	LAS	34	* † Belvidere
Gilman, Lydon Ainsworth	CE	4	* † Kansas City, Missouri
Gilmore, Bruce Wellington	Agr		* † Compton
Gilmore, Franklin	Bus	31	* † Oak Park
Gilson, Robert Hiram	Law	13	* † Blue Island
Gilson, Samuel Reid	CE	88	* † Galena
Giltner, Frances Mackey	LAS	28	* † Monmouth
Gipson, Charles Franklin	Agr	35	* † Amboy
Gipson, David William	Flor	98	* † Amboy
Girhard, George Monroe	SS	86	* † Champaign
Gjelsness, Rudolph Hjalmar, A.B., B.L.S., 1916, 1920	SS	66	* † Reynolds, North Dakota
Gjessing, Harry	MinE (SS)	22½	* † Joliet
Glaeser, Elmer William	LawP		* † Chicago
Glaeser, Philip Albert	Bus		* † Chicago
Glanzer, Elvera Emelie	HELAS		* † Trenton
Glaser, Abraham Lewis	Flor	60	* † Chicago
Glasgow, Glenn Earl	Agr	38½	* † Hanna City
Glasgow, William Lester	LawP	29	* † Monticello
Glass, Ruth Iona	LAS		* † Ft. Wayne, Indiana
Glass, William Carl	ME	62	* † Rock Island
Glassco, Hazel	SS	92½	* † Urbana
Gleick, Joseph Theodore	Chem	36½	* † Webster Groves, Missouri
Gleim, Margaret Elizabeth	LAS		* † Sreator
Glenn, Dorothy May	LAS	30	* † Chicago
Glenn, Harold Martin	LAS	74	* † Urbana
Glenn, Jean Neva	LAS	102	* † Moline
Glenn, Matthew Wyman	Ath (SS)	25	* † Mt. Vernon
Glenn, Sidney Erwin	LAS	64½	* † Chicago
Glick, Perry Aaron	LAS	84½	* † Hamilton, Missouri
Glick, Philip Percy	ME	116	* † St. Louis, Missouri
Glicken, Maurice Jerome	ME	35	* † Chicago
Glidden, Doris	LAS (SS)	33	* † DeKalb
Glidden, Nansen	Agr	91	* † DeKalb
Glos, Donald Frederick	ME	70	* † Wayne
Glos, Marybelle Alden	LAS		* † Elgin
Glotsfelty, Thomas Edward	EE	29	* † Urbana
Gluskoter, Samuel Philip	ME	77	* † Chicago
Gnaedinger, Charles Walter	ME	32	* † Chicago
Goad, Clifford Louis	ME	34	* † Urbana
Goble, Emerson Lloyd	EE	45½	* † Elgin
Goble, Theodora Marie	LAS		* † Charleston
Goddard, Edwin Dibrell	IndA	45½	* † Moline
Goddard, Clara Elizabeth	LAS	54	* † Urbana
Goddard, John Henry	Agr		* † Urbana
Goddard, Myron Chester	LAS (SS)	91% <sub>6</sub>	* † Urbana
Godeke, Frank Bernard	Law	5	* † Olney
Godfrey, Joseph Charles, Jr.	Bus	34	* † Oak Park
Godfriaux, Henri Renile	SS		* † Chicago
Goebel, Anne Vreeland	LAS	114	* † Urbana

Goebel, Ralph Nicholas	ChE	43	* † Sheridan, Wyoming
Goedde, Florence Henrietta	LAS		* † Chicago
Goedde, Gladys Emmas	LAS		* † East St. Louis
Goelitz, Mildred June	Jnl		* † Ravinia
Goetz, Fred Samuel	Bus	53	* † Chicago
Goetz, Leonard Clifford	ChE		* † Collinsville
Goff, Floyd Henderson	SS		* † Danville
Goff, John Alonzo	ME	99½	* † Colorado Springs, Colorado
Goforth, George Elbert	SS	8	* † Cobden
Golb, Samuel Henry	CE	73½	* † Chicago
Goldberg, Albin Gilbert	Accy	26½	* † Joliet
Golden, Dios Edward	Agr	74	* † Champaign
Golder, Lloyd William	IndA	90½	* † River Forest
Goldsholl, Samuel	CE	58	* † Chicago
Goldstone, Lillian Katharine	LAS sp	17	* † Grafton, North Dakota
Goldstone, Samuel	ME	91½	* † Chicago
Gomez, Alfonso Arzapolo	AE	122	* † Mexico City, Mexico
Golpel, Eunice Cooksey	LAS		* † Urbana
Gooch, John Horace	LAS	31	* † Albion
Good, Allan James	Agr	39½	* † Kewanee
Good, Katharine Marie	SS		* † St. Davids, Pennsylvania
Good, Merton McKinley	RA	100	* † Shepherdstown, West Virginia
Goodall, Harriet Moore	Mus	34	* † Morion
Goodell, Helen	SS	29	* † Beardstown
Goodell, Helen Elizabeth	LAS	25	* † Loda
Goodell, Horace Holbrook	CE	61	* † Beardstown
Goodenough, Wilber Stanford	Bus	11½	* † Louisville
Goodman, Walter Ferdinand	Bus		* † LaSalle
Goodman, William Finley	Law	59	* † Louisiana, Missouri
Goodney, Willard Kinsman	EE		* † Stambaugh, Michigan
Goodpaster, Chester Taylor	Bus	34	* † Mt. Pulaski
Goodpasture, Charles Henry	Bus	4	* † Champaign
Goodrich, Albert Herbert	IndA (SS)	78	* † Champaign
Goodrich, Owen Rufus	ME		* † Peoria
Goodridge, Thomas Richard	Bus		* † Oak Park
Goodwill, Floyd Armund	Accy (SS)	95½	* † Peconica
Goodwine, Harold Gieyn	LAS	29½	* † Rockford
Goodyear, Grace Lucille	HELAS	55½	* † Morion
Gould, Robert Harold	Bus	24	* † Yates City
Gordin, Zella Coral	LAS	25	* † Champaign
Gordon, Frank Allyn, B.S., 1920	SS	140½	* † Urbana
Gordon, Benjamin Franklin	Agr	31½	* † Wynne, Arkansas
Gordon, Harold Henry	Agr	28½	* † Alia
Gordon, Harry Raymond	Agr	62½	* † Peoria
Gordon, Hazel Augusta	HELAS	102½	* † Urbana
Gordon, Paul Morris Herman	LAS		* † New York, New York
Gordon, Russel Lowell	IndA	94½	* † Urbana
Gordon, Russell Mark	EE		* † Pontiac
Gordon, Wendell Holmes	Bus	70½	* † Urbana
Gore, Roy Cletis	Law	13	* † Champaign
Gorham, Mary Thelma	SS	7½	* † Mt. Vernon
Gorman, Agnes Margaret	LAS		* † Peoria
Gorrell, Ralph Henry	Bus (SS)	118	* † Knox, Indiana
Gorrell, Stuart Graham	Jnl		* † Bremen, Indiana
Gose, Elliott Bickley	LAS		* † San Diego, California
Gossett, Lorn Mathias	IndA	103½	* † Casey
Gossett, William Porter	ChE	71	* † Norris City
Gothard, Ralph Waldamaer	Bus	43	* † Dundee
Gott, Harry Dominic	Bus	105	* † Libertyville
Gott, Hugo Palmer	Bus	102	* † Libertyville
Goudie, James Hunter, Jr	Agr		* † Oswego
Gouch, Fayette Lichtenfeld	Bus		* † Centralia
Gould, Clifford Burt	IndA	122	* † Aurora
Gould, Forest DeWitte	LAS		* † Ironwood, Michigan
Gould, Howard Woodham	SS	7½	* † Bone Gap
Gould, Marion Jennings	Accy	50½	* † Yates City
Gould, Richard Ernest	ME	37½	* † Chicago
Gould, Robert Harold	Bus	24	* † Yates City
Gould, Victor Leighton	LAS	97	* † Trenton
Goulding, Robert LeRoy	Bus		* † Allon
Gower, Lawrence Eben	Agr (SS)	100½	* † Odell
Gower, Roland Dewey	IndA	33	* † Mendota
Grady, Paul	Ins	65	* † Marion
Graham, Burnell Lowell	LAS		* † Bartlesville, Oklahoma
Graham, Fred Pearson	Law sp	38	* † Aledo
Graham, Harold Haynes	Law	36	* † Canton
Graham, Leo Handibode	LawP	32½	* † Kewanee
Graham, Marcella	Jnl		* † Chicago
Graham, Philip Summerfield	EE		* † Marion
Graham, Ray Scott	Agr	34	* † Pittsfield
Graham, Robert Garner	LAS	56	* † Monmouth
Graham, Ronald Clifton	Agr	81	* † Athens
Graicunas, Algirdas Andrew	Agr	61	* † Chicago
Grant, Joseph Glenard Henry	EE	37½	* † Harrisburg
Grant, Orin Bradford	ChE	65	* † Chicago Heights
Grant, Samuel	ChE		* † Chicago

Grasse, Arthur Martin	ME	123	* † Chicago
Grasse, Irma Adelia	Bus		* † Chicago
Grau, Frederick Jericho	Bus		* † Mt. Pleasant, Iowa
Graves, Kenneth Osborn	LG		* † Chicago
Graves, Milton Albert	ME	33	* † Evanston
Graves, Ruth Bernadine	LAS	33	* † Bloomington
Gray, Ann Winifred	Mus		* † Urbana
Gray, Beatrice Hallock	HELAS	32	* † St. Joseph, Michigan
Gray, Earl Kenneth	Bus (SS)	62½	* † Joliet
Gray, Elizabeth Louise	LAS		* † Urbana
Gray, Gladys Olive	LAS	31	* † Suller
Gray, Horace Montgomery	Accy (SS)	82	* † Lerna
Gray, Howard William	Bus (SS)	38	* † Lerna
Gray, Kline	EE	107	* † Gibson City
Gray, Mildred	LAS (SS)	76	* † Lerna
Gray, Miles	Law	50½	* † Petersburg
Gray, Muriel	LAS	44½	* † Champaign
Gray, Ralston Dart	Agr (SS)	58	* † Urbana
Gray, Rena Elizabeth	SS	43	* † Maroa
Gray, Sidney Jay	Agr	77	* † Princeton
Gray, Viola May	LAS sp		* † Chicago
Graydon, William Dewey	EE	95	* † Chicago
Grebe, Frank Henry	ChE		* † Springfield
Greeley, Paul Webb	MedP	32	* † Waterman
Green, Drue Alfred	Law	1	* † Parkersburg
Green, Herschel Samuel	LAS (SS)	117½	* † West York
Green, John Russell	CerE	68½	* † Chicago
Green, Mildred Amelia	SS	6	* † Nokomis
Green, Philip Thompson	Agr	29	* † Attica, Indiana
Green, Ruth Frances	LAS	30	* † Dundee
Green, Vivian Julius	Agr	33	* † Urbana
Green, William David	Bus		* † Bloomington
Green, Winifred	LAS		* † Oakwood
Greene, Earl Blair	MSE	77½	* † Abingdon
Greene, Gladys Ellaline	SS	90	* † Kansas City, Missouri
Greene, Harold Nathan	Agr	97½	* † Champaign
Greene, Howard Webber	Agr	35	* † Edelstein
Greene, Katherine Margaret	LAS		* † Petersburg
Greene, Scott Crowith	Bus	112	* † Wilmette
Greene, Wilbur Lee	Bus	8	* † Bloomfield, Indiana
Greenfield, Israel	ChE		* † Chicago
Greenhoe, Amy Elizabeth	LAS	84½	* † Hillsboro
Greening, Jesse Arthur	Bus	31	* † Streator
Greenlee, Clark Montgomery	Bus		* † Winnebago
Greenman, Paul Revere	IndA	47½	* † Champaign
Greenwald, Theodore	LAS		* † Chicago
Greenwill, Thomas	AE		* † Farmington
Greer, Homer Drury	Bus		* † Urbana
Greer, Mrs. Lucille Ellen	SS	4	* † Champaign
Greer, Russell Allen	LAS		* † East St. Louis
Greer, Velma Loys	SS	23	* † Urbana
Gregg, Jean Passmohr	HELAS	32	* † Chicago
Gregg, Paul	SS	7½	* † Carbondale
Gregory, Belle Nina	HELAS		* † Urbana
Gregory, Helen Ruth	LAS	55	* † New Berlin
Gregory, Richard Earl	ME	73	* † Moweaqua
Gresens, Otto	Accy (SS)	110	* † West Chicago
Gries, Albin George	LG (SS)	66	* † Chicago
Grieser, Robert Waller	LAS	80	* † Quincy
Griffin, Charles Carroll	LAS	62½	* † Champaign
Griffin, Edwin David	Agr sp		* † Waterloo
Griffin, Judson Roy	LAS		* † Elkhart, Indiana
Griffin, Stephen William	Voc esp		* † Waterloo
Griffin, Virgil Mason	LAS		* † Sidney
Griffith, Andrus Oliver	ComT	100	* † Ashton
Griffith, Everett McKee	LAS	68	* † Washington, Iowa
Griffith, John William	LAS	22	* † Champaign
Griffith, Mabel Frances	LAS	23	* † Urbana
Griffith, Rachel Mary	Mus	106	* † Madison, Wisconsin
Griffith, Walter George	Agr	39	* † McNabb
Grigg, Jerome Bruner	IndA (SS)	116	* † Joplin, Missouri
Grigg, Myron Guthrie	Bus (SS)	64	* † Sparta
Griggs, Clarence Dominique	Bus	48	* † Metamora
Grigsby, Earl Chester	EE		* † Erieville, Indiana
Grimm, Gretchen	SS	8	* † Urbana
Grimm, Horace Frances	Bus	103	* † St. Louis, Missouri
Grinnell, Francis Newell	Agr	30½	* † Kankakee
Gripp, Elmore Albert, B.S., 1918	Law	15	* † Moline
Grobengieser, Robert Arthur	Bus	69	* † Allamont
Groeger, Roscoe Charles	EE (SS)	73½	* † Chicago
Grogan, Clarence Raymond	Ath	12	* † Chicago
Groh, Nell Marie	LAS sp		* † Otterbein, Indiana
Gronnerud, Herbert Melvin	CE (SS)	95½	* † Fort Byron
Grosch, Albert Edwin	Bus		* † Chicago
Grose, Frances Emerson	SS		* † Centralia
Gross, Annette	LAS		* † Chicago



Gross, Meda Floy	SS	93½	* Warrensburg
Gross, Roland Albert	LAS		* Pleasant Plains
Gross, Walter Henry	Bus		* Buckley
Grosskoff, Charles Edward	CE	8	* Michigan City, Indiana
Grote, Waldorf William	ME	69½	* Wheaton
Grovel, Frances May	LAS	34	* St. Louis, Missouri
Groves, Charles Harold	Bus	116½	* Champaign
Grow, Harold Asa	Bus	26	* Kewanee
Grubb, Kenneth Alfred	CE	32	* Atlantic, Iowa
Grube, Robert Louis	Accy (SS)	49	* Aurora
Grubel, Roy William	ME		* Sheldon
Grylich, Rica	LAS	61	* Champaign
Gucwa, Albert Aloysius	CE		* Chicago
Guenther, Louis Henry	LAS (SS)	77½	* LaSalle
Guenther, Raymond	EE	35	* Paterson, New Jersey
Guernsey, Fredrika Grace, A.B., 1919	SS		* Abingdon
Guha, Amulya Chandra	EE		* Bengal, India
Gulley, Henry Alexander	ME	122	* Urbana
Gulley, Sanford Joseph	ME (SS)	116½	* Urbana
Gullickson, Rowland Hessler	Agr	35	* Chicago
Gulmyer, Reginald Joseph	Bus	23	* Elkhart, Indiana
Gummi, Minnie Carol	LAS (SS)	107	* Marseilles
Gumz, Frederic William	ME	48½	* Aurora
Gundlach, Wallace Charles	Bus	32½	* St. Louis, Missouri
Gunning, James Thomas	Bus	40½	* Urbana
Gupte, Shantaram Shankar	Mus (SS)	34½	* Bombay, India
Gurney, Walter H	Agr		* Manhattan
Gurtler, William August	CE	36½	* Chicago
Gustafson, Carl Edward	EE		* Waukegan
Gustafson, Edna Myrle Madeline	Chem	108	* Joliet
Gustafson, John Hilmer	AE	99½	* Urbana
Gutfreund, Norman Leo	LawP	60%	* St. Louis, Missouri
Guthrie, Andra Kitson	HEAgr		* Frankfort, Kentucky
Guthrie, Kenneth William	ME (SS)	41	* Jacksonville
Gwinn, Andrew Burkley	LAS	76½	* Urbana
Gwinn, John Fulton	Agr	5	* Fairland
Gwinnup, Herbert Leonard	AE		* Anderson, Indiana
Haag, Ivan Lyle	Chem	103½	* Mason
Haas, Eli Samuel	ChE	27½	* Chicago
Haas, William Alexander, Jr.	EE	42	* Louisville, Kentucky
Haase, Paul Ferdinand	Bus	37½	* Oak Park
Hackett, Elizabeth Luta	LAS	12	* Tuscola
Hackett, Robert Phillip	Bus	25½	* Rochelle
Hackney, Joseph Dryden	SS	134½	* Carthage, Missouri
Hadam, Beatrice Elizabeth	LAS		* Chicago
Hadley, Margaret Hannah	LAS		* Winnetka
Hadley, Milton Herschel	SS	7½	* Plainfield, Indiana
Hadley, Wilbur Powell	LAS		* Edwardsville
Haering, Veronica Lucille	LAS	19	* Chicago
Haertel, Arthur Theodore Walter	Bus		* Dundee
Hafer, Theodore Hewitt	Agr		* Irvington
Haft, Della May	Lib(SS)	15	* Rapid City, South Dakota
Hagan, Bernard Anthony	ME (SS)	113½	* Champaign
Hagan, Catherine Frances	Bus		* Champaign
Hagan, Helen Lucile	LAS	101½	* Champaign
Hagebush, Charlotte Ann	Mus		* Ashley
Hagen, Adele Clara	LAS	30	* Oak Park
Hagen, Fred Ellis	Agr		* Hubbard Woods
Hagener, Charles	ME	57½	* Beardstown
Hager, Floyd David	Chem	70½	* Center Point, Iowa
Hahn, Alta Ruth	Jnl	64½	* Springfield
Hahne, William Fred	Bus	67½	* Chicago
Haines, Russel Dewey	Bus		* Denver, Indiana
Hair, Arthur J	Law	30	* Greenville
Haldeman, Virgil Kenneth	CerE	73½	* Lankershim, California
Hale, Dorothy	SHHEAgr		* Evansville, Indiana
Haley, Josephine Marita	LAS	70	* Arcola
Haley, Kenneth Huber	Bus		* East Lynn
Haley, Marion Marguerite	HELAS	34	* Buda
Haley, Paul Edward	MedP		* Woodstock
Hall, Allen Howell	Jnl	59	* Oldwich, New Jersey
Hall, Almon Arthur	Arch		* Connersville, Indiana
Hall, Burrill Rupert	Mus sp	8	* Urbana
Hall, Charles Clayborne	CE		* Terre Haute, Indiana
Hall, Charles Proctor	ChE	74½	* Kansas City, Missouri
Hall, Grace Johns	SS	3	* Des Moines, Iowa
Hall, Gladys Gere	LAS		* Champaign
Hall, Helen Florence	LAS	60	* Belvidere
Hall, Hugh Fisher	Agr	97½	* Bement
Hall, Louis Gerard	Agr	80	* Decatur, Michigan
Hall, Melvin Eugene	Bus		* Cartersville
Hall, Powell Storrs	AE		* Ripon, Wisconsin
Hall, Ross Cyril	EE	86	* Rose Hill
Hall, Ruth Jean	LAS (SS)	75	* Urbana
Hall, Virginia Augusta	LAS	13	* Chicago
Hallauer, William Edward	AE	98½	* Davenport, Iowa

Hallbauer, Ernest Ludwig	MinE	109	* † Chicago
Haller, Charles Jacob	EE	71½	* † Stuttgart, Arkansas
Hallett, Howard Worthington	ME	35	* † Chicago
Hallock, Genevieve	LAS	30	* † Ashmore
Hallows, Raymond Leroy	Agr	30	* † East St. Louis
Halls, Martha Dee	Jnl		* † Chicago
Hallstein, Fred John	CE	36	* † Pekin
Halperin, Isadore Martin	REE	70	* † Chicago
Halquist, Axel Theodore	Bus	25½	* † Chicago
Halushka, Cornelius Paul	LAS	12	* † Chicago
Halverson, Lenard Severt	SS	9	* † Stanley, Wisconsin
Halvorsen, Arnold Oliver	CE	89	* † Chicago
Hamblen, Lillian May	LAS	31	* † Chicago
Hamer, Dorothy May	HELAS	96	* † Emporia, Kansas
Hamerstrom, Norman Elwood	LAS	20	* † Galesburg
Hamill, Warren Catlin	Bus	100	* † Marissa
Hamilton, Mrs. Arthur	Mus	129	* † Urbana
Hamilton, Grace Leonora	LAS	33	* † LaSalle
Hamilton, James Roscoe	LAS	73½	* † Willow Hill
Hamilton, Joseph Roe	Agr	88½	* † Galesburg
Hamilton, Ralph Kenny	Chem	58½	* † Blandinsville
Hamilton, Thomas Patrick	ME	70½	* † Clinton
Hamiter, Robertelle	LAS	130½	* † Little Rock, Arkansas
Hamlin, Ina Marie, B.S., 1920	SS	63½	* † Urbana
Hamlin, Iva Pearl	HELAS (SS)		* † Urbana
Hamlin, Willa Sue	HELAS		* † Urbana
Hamm, Martin Isaac	Bank		* † Strasburg
Hammack, Robert Gale	Agr sp		* † Pinckneyville
Hamman, Bertha Orra	LAS		* † Bement
Hammann, Doris Josephine	HELAS	32	* † Watseka
Hammer, Hilda Elizabeth	LAS		* † Champaign
Hammer, William Henry	CE		* † Downers Grove
Hammerstein, Albert Emil	CE (SS)	70½	* † St. Louis, Missouri
Hammond, Asaph Chandler	Agr	87	* † Warsaw
Hammond, Bertrand Tarrott	Agr	72	* † Evanston
Hammond, Mary Frances	SS	13½	* † Anna
Hammond, Miriam Hallam	HELAS		* † Bement
Hammond, Percy Don, A.B., 1917	Lib (SS)		* † Weston, West Virginia
Hammond, Ruth Florence	HELAS	120½	* † Frankfort, Indiana
Hamper, Harold Blanchard	EE	25	* † Aurora
Hampson, Beulah Fredericka	HELAS	103	* † St. Louis, Missouri
Hanajima, Shuichi	SS	11	* † Mishima, Japan
Hance, James Mordecia	Mus sp	90	* † Newman
Hance, Paul De Witt, Jr.	EE	29	* † Elgin
Hancock, Mary Lillian	SS	59	* † Beecher City
Hand, Edward Bernard	Bus		* † Oglesby
Hand, Ella Marie	CCS	30	* † Champaign
Hand, Pearl Irene	LAS		* † Chicago
Handke, Edna Anna	LAS	26	* † Forest Park
Handke, Otto Frank	ME		* † Forest Park
Handley, Howard Henry	Bus		* † Elwell, Michigan
Handy, Harry Edwin	ME	37	* † Marshall
Hanft, Theodor Martin	Agr	86	* † New Athens
Hanger, Mary Elizabeth	LAS	36	* † Indianapolis, Indiana
Hank, Leonard Martin	ME		* † Urbana
Hanly, Darrell Irving	Agr	27½	* † Muncie
Hanna, Floyd Odel	Agr	71	* † Worthington, Indiana
Hannam, Lillian Verneille	LAS		* † Oneida
Hannon, John Michael	Agr	48½	* † Chicago
Hansen, Everett James	ME (SS)	74½	* † Brookston, Indiana
Hansen, Ida C	LAS sp		* † Persia, Iowa
Hansen, John Wilbur	Bus		* † Brookston, Indiana
Hansen, Martin Carl	Bus	49½	* † Chicago
Hansen, Norman Albert	LAS	57½	* † Chicago
Hansler, John Edward	ME		* † Elgin
Hanson, August Hugo	LG	88½	* † Owatonna, Minnesota
Hanson, Lorene Estella	HELAS		* † Paxton
Hanson, Maurine Louise	Ed		* † Galva
Harcus, Margaret Antoinette	LAS		* † River Forest
Hardacre, Gilbert Kuster	ChE	36	* † Kansas City, Missouri
Harden, James Edward	CE	70	* † Shelbyville
Hardesty, Josephine Frances	LAS (SS)	89½	* † Homer
Harding, Florence Marie	LAS		* † Champaign
Harding, Frank Ray	AE	13	* † Streator
Harding, Harold Walter	Bus	64½	* † East St. Louis
Harding, Harry Gordon	LAS		* † Urbana
Harding, Nina Ruth	SHHEAgr		* † East St. Louis
Harding, William Thomas	LAS	119½	* † Champaign
Hardy, Beatrice Grace	SS	8	* † Pendleton, Indiana
Hardy, Robert Henry	Bus		* † Murphysboro
Haren, Allis	Agr	25	* † Kansas City, Missouri
Harewood, Richard Alexander	Chem	67½	* † Winnepeg, Canada
Harford, Lyle Fowler	Agr sp	39	* † Alton
Hargitt, George Harold	SS	102½	* † Aurora
Harkness, Roy Wendel	ChE	34½	* † Yorkville
Harlan, Elby George	Bus		* † Tuscola

Harlan, Marshall Oscar	Accy		* † Clinton, Indiana
Harland, Mrs. Helen Watts	HELAS	113	* † Urbana
Harlin, Amond McKinley	Bank	62½	* † Del Rio, Texas
Harman, Howard Wynes	CE	78	* † Peoria
Harman, Ruth Marguerite	LAS	62	* † Sidell
Harmaza, Joseph	SS	7	* † Urbana
Harmeling, Henry Charles	REE	73½	* † Paducah, Kentucky
Harmon, Fannie Rosa	LAS	20	* † Urbana
Harms, Carl Frederick	ME	79½	* † Chicago
Harms, Frank Robert	Bus		* † Chicago
Harms, Robert Harmon	Law	29	* † Chatham
Harnet, Charles Emory	Jnl	36	* † Hinsdale
Harnit, Kathryn Anne	LAS		* † Amarillo, Texas
Harper, Charles Athiel	SS	55½	* † East St. Louis
Harper, Le Roy	MedP		* † Seattle, Washington
Harper, Louise Wallredge	LAS	65	* † East St. Louis
Harper, Luther Lee	Bus		* † Urbana
Harper, Phyllis Hill	LAS	59	* † East St. Louis
Harper, Robert Osborne	Agr	33	* † East St. Louis
Harper, Wesley Dean	Agr	8	* † Urbana
Harriman, Gilbert Samuel	Chem		* † Rio
Harriman, John Walter	ME	37½	* † Chicago
Harrington, Bernard Michael	LAS	8	* † Chicago
Harrington, Bernard Wilfred	Law	30	* † Champaign
Harrington, Carroll Henry	Agr ssp	8	* † DeKalb
Harrington, Earl Charles	Law	30	* † Champaign
Harrington, J G	CE	115½	* † Ridge Farm
Harrington, Maude Eleanor	Bus		* † Chicago
Harrington, Velma Mae	LAS		* † Chicago
Harris, Alice Jane	SS	74½	* † Marion
Harris, Donald Alton	CE	74	* † Decatur
Harris, Everette Lee	LawP	29½	* † Rantoul
Harris, Fay Morrow	Arch (SS)	43½	* † Mounds
Harris, Frank Charles	LG	78	* † Coffeen
Harris, John Edgar	Agr	113	* † Coffeen
Harris, Lucile Margaret	LAS		* † Champaign
Harris, Ralph Ervin	ME		* † Sheldon
Harris, Roy Jay	MinE	3	* † St. Louis Missouri
Harris, Walter Henry	Bus (SS)	8	* † Houstonia, Missouri
Harrison, Alice Sinclair	SS	11	* † Austin, Texas
Harrison, Helen Harriet	LAS		* † Bloomington
Harrison, Hugh Brooks	Bus	100½	* † Bloomington
Harrison, Lyle Lux	Bus	36	* † Lorington
Harrison, Paul Edwin	Bus		* † Bloomington
Harrison, Ruth	HEAgr	123½	* † Bloomington
Harry, Ruth Lucille	Jnl	61	* † Champaign
Harsh, George Frederick	MedP (SS)	32½	* † Garrett, Indiana
Harshbarger, Frieda Irene	HELAS	58½	* † Ivesdale
Hart, Fannye Sylvia	Bus		* † Cicero
Hart, Joseph Francis	Chem	57½	* † Clinton
Hart, Mrs. Laura Louise Miller	SS	72	* † Chicago
Hart, Marion Murphy	Law	27	* † Benton
Hart, Mary Miller	LAS (SS)	44	* † Benton
Hart, Morris Broadway	EE (SS)	61½	* † Vienna
Hartelius, Floyd Melvin	EE	36	* † Rockford
Harter, Baxter Burris	ME	34	* † Urbana
Harter, Siegfried Paul	LAS	62½	* † Pana
Hartley, Helen Grace	LAS		* † Henry
Hartley, Miles C	LAS (SS)	37	* † Toulon
Hartman, Frank Joseph	SS	6½	* † St. Louis, Missou
Hartman, Howard Levi	Arch	71½	* † Indianapolis, Indiana
Hartman, Kline Benjamin	SS	5½	* † Hesperia, Michigan
Hartman, Olga	Bus	31	* † Waterloo
Harts, Hanson Wright	LAS	34½	* † Chicago
Hartung, George August	IndA	66½	* † Chicago
Harvell, Maynard	Bus		* † Decatur
Harvey, Clifford Welton	Agr		* † Mt. Vernon
Harvey, Frederic Sailor	ForC	70	* † Fairfield
Harvey, Margaret Ann	Bus	26	* † Elgin
Harvey, Robert Allen	IndA	97	* † Fairfield
Hasbrook, Robert Locke	Bus (SS)	87½	* † Hinsdale
Hasbrouck, Theodore Louis	CE	27½	* † Bloomington
Hasenpflug, Roy	EE	126	* † Waterloo, Canada
Hasimoto, Ryoza Miki	Chem	8	* † San Francisco, California
Haskin, Frederick E.	EE	30	* † Eldorado
Hastings, Helen Lucile	LAS	99	* † Moline
Haswell, James McDonald	Law		* † Webster Groves, Missouri
Hatch, Frank Moller, Jr.	Accy		* † Chicago
Hatch, Lemoine Seudler, Jr.	ME		* † LaGrange
Hatfield, Arthur George	Bus		* † Morrison
Hathorne, Enilie Marian	LAS	54	* † Waukegan
Hathorne, Wade Sherman	Chem	60	* † Waukegan
Hatton, Isaac Josiah	MedP		* † La Salle
Haugh, Carl Edwin	ME	47½	* † Whiting, Indiana
Haumersen, Edith Henrietta	LAS	93	* † Chicago
Hauser, Era Norbett	ChE		* † Oak Park

Hauser, Ruben Clemens	Chem		* †	Stuttgart, Arkansas
Hausmann, Herbert Soldner	Bus		* †	Vandalia
Havard, Mary Pearl	LAS		* †	Urbana
Haverkamp, Morris Walter	Bus		* †	Dundee
Hawken, Granville Jacob	AE		* †	Kirkwood, Missouri
Hawker, Raymond Peter	Agr		* †	Marshall
Hawkes, Joseph Bulkley	LAS	46½	* †	Rosemond
Hawkins, John Henry	SS	8		Allenville
Hawkin, Louis Edison	CE	2½	*	Harrisburg
Hawkins, Ruby D.	SS	8		Centralia
Hawks, Jean Elizabeth	HELAS(SS)	34	* †	Cambridge
Hawks, John Uline	Bus	35	* †	Goshen, Indiana
Haworth, Agnes May	SHHEAgr	28	* †	St. Joseph
Haworth, Harry Sloan	RCE	73½	* †	Springfield
Haworth, Lucile Geraldine	HEAgr		* †	St. Joseph
Hawthorne, Rosene Alice	LAS	27	* †	Urbana
Hay, Arthur Vencint	Agr		* †	Fowler, Indiana
Hay, Donald Arthur	Chem	16½	* †	Ottawa
Hay, John Allen	LawP	34	* †	Marion
Hay, Porter Wand	EE	33	* †	Urbana
Hay, Sarah Frances	HELAS		* †	Danville
Hayes, Dulcie	LAS	19½	* †	Ogden
Hayes, Harmon Phillip	LAS		* †	Urbana
Hayes, Robert Cary	LAS	62½	* †	Urbana
Haylett, David Graaff	Agr		* †	Cape Town, South Africa
Haynes, William Ross	LAS	21	*	Champaign
Hayes, Edward Cormaeen	Bus	64	* †	Marion, Indiana
Hayes, Ethel Marguerite	LAS	35	* †	Marissa
Hayes, Genevieve Emma	LAS		* †	Chicago
Hayes, Marcus Sanders	Bus	33	* †	Worthington
Hayward, Donald Eugene	Bus	39½	* †	Peoria
Hayward, Harold Nathaniel	EE		* †	Elgin
Hayward, Helen Mae	Bus	30	* †	Elgin
Hayward, Landes Hamilton	ME		* †	Peoria
Hayward, Robert William	Agr	32	* †	Fairfield
Hazelrigg, William Elmer	Jnl	52½	* †	Terre Haute, Indiana
Hazen, Cecil Reeder	Agr	79½	* †	Champaign
Hazen, Nathan Bruce	Arch	129	* †	Peoria
Hazlehurst, Jack Harris	EE		* †	Hubbard Woods
Heath, John Jackman	Bus sp	4	* †	Chicago
Heath, Mildred Dorothy	HELAS	59	* †	Odel
Heath, William Owens	Bus	24	* †	Evanston
Heaton, Horace Edward	ME	40	* †	Anderson, Indiana
Heaton, Jeanette	LAS	90	* †	New Burnside
Heaton, Raymond Lester	Agr	60	* †	Hoopeston
Heberer, Henry Miles	LAS	62½	* †	East St. Louis
Heckaman, Loren Link	EE		* †	Bremen, Indiana
Heckel, Ervin John	Agr	30	* †	Chicago
Heckel, Hermann Conrad Nies	Chem	113½	* †	Chicago
Hedgcock, Charles B.	SS	7		Urbana
Hedgcock, Dwight Lynn	ChE	68½	*	Augusta
Hedgcock, Ralph Everett	CE	99	* †	Augusta
Hedgcock, Sloan Franklin	Agr	49½	* †	Plymouth
Hedje, Margaret	LAS	94	* †	Chicago
Hedrich, Otto Hoffman	ME	93½	* †	Chicago
Hedrich, Roland Louis	ME	37	* †	Chicago
Heffernan, James Francis	Arch		* †	Champaign
Heffron, Roderick	MedP		* †	Chicago
Hegan, Wherritt Werden	LAS	74½	* †	Maywood
Hegert, Geraldine Daette	HELAS	32	* †	Amboy
Hegner, Herman Franz	ME		* †	Chicago
Heideman, Arthur Gustav	Chem	61½	* †	Elgin
Heidemann, Ella Henrietta	LAS		* †	Hinsdale
Heidemann, Francis Joseph	CE	4½	* †	Rock Island
Heidenrich, Stanley George	CE	36	* †	Ottawa
Heider, Raymond Louis	Bus	4	* †	Moline
Heil, Henry	LawP		* †	Decatur
Heil, Joseph Frank	CE		* †	Chicago
Heilbron, Simon Edwin	LAS (SS)	100½	* †	Chicago
Heiligenstein, Christian Adam	Bus	21	* †	Fredburg
Heimovics, John Francis	MSE	4	* †	Kansas City, Missouri
Heineman, Henry Edward Orville	ChE	33	* †	Chicago
Heinle, William Frederick	SS	8		Urbana
Heinrich, Robert Miller	MinE	68½	* †	Chicago
Hettler, Charles	Bus	12	* †	Chicago
Heller, Clarence Max	AE	27	* †	Champaign
Heller, Otto Carl	ME		* †	Chicago
Hellgren, Stanley David	Agr	25	*	Plano
Hellstrom, Evans Norton	Ath sp	34	* †	Evanston
Helm, Verna Mae	LAS	65½	* †	Metropolis
Helmie, Herman George	Bus		* †	Springfield
Helmreich, Ernst Christian	LAS		* †	Crescent City
Holms, Elva Allen	LAS	74½	* †	Veederburg, Indiana
Holper, Walter Champ	Agr	93	* †	Henry
Helvie, Marian Cole	LAS		* †	Frankfort, Indiana
Hemphill, John Scott	MinE		* †	Benton

Henares, Hilarion Gensole	ME		* Bacolod, P. I.
Henderson, Aurel Finley	LAS	80	* † Paxton
Henderson, Donald Cedric	Agr		* † Leland
Henderson, Eli Camden	SS		* † Wallace, West Virginia
Henderson, George Warren	Bus		* † Mattoon
Henderson, Lawrence Jewell	Bus	32	* † Champaign
Henderson, Leslie David	Agr		* † Fowler, Indiana
Henderson, Mary Abigail, A.B., 1919	SS	130½	* † Urbana
Henderson, Noble Rhollen	Agr		* † Mendon
Henderson, Russell Dewey	Arch	34	* † Humrick
Henderson, Stanley	ME		* † Washington, D. C.
Hendry, Charles George	Agr		* † Keniland, Indiana
Henebry, Philip Ernest	ME		* † Bement
Henkel, Andrew Lawrence	Arch sp	8	* † Oak Park
Henle, Raymond Zoller	LAS	41½	* † Davenport, Iowa
Henley, Byron	SS	21	* † Dabneys, Virginia
Henley, Thomas Edward	Agr	105	* † Mattoon
Henn, Donald Everett	CE	70½	* † Park Ridge
Henneberry, James Leo	ME	84	* † Rankin
Hennessey, Floyd Arthur	MedP	22	* † Chicago
Henning, Edgar Bennett	IndA	62½	* † Chicago
Henning, Everette Raymond	Bus		* † Pittsboro, Indiana
Henning, Lester Anton	Bus		* † Chicago
Henninger, Edith St. John	LAS		* † Chicago
Henninger, Fred A., Jr.	Arch	70½	* † Omaha, Nebraska
Henninger, George Copeland	ChE	36½	* † Chicago
Henry, Bernard Edward	EE	48	* † Villa Grove
Henry, James Ray	Bus	22	* † Burlington, Kansas
Henry, Mabel Frances	HELAS (SS)	97½	* † Urbana
Henry, Nina Rose	LAS	23	* † Bloomington
Henry, Vernon Wilmot	Bus	42½	* † Tulsa, Oklahoma
Henry, William Carter	Bus	73	* † Urbana
Henry, William Stone	MedP		* † Washington, D. C.
Hensel, William Monroe	Bus		* † Chicago
Hensley, Olive May	Mus sp (SS)	13½	* † Champaign
Henson, George Warren	Bus	4	* † Villa Grove
Henson, John Robert	Bus		* † Villa Grove
Hepburn, Hoyt James	Bus	16½	* † Chicago
Heraty, Joseph Edward	Bus		* † Bayonne, New Jersey
Herbert, Harold Henry	CE	62½	* † Elmwood
Herche, Arlyn George	Bus	34	* † Rushville
Herman, Frank Andrew	C&L	41	* † Mounds
Hermle, Mae Pearl	SS		* † Beatrice, Nebraska
Hermesmeier, Paul Arthur	Bus		* † Freeport
Hernandez, Milagros Marian	SS	2½	* † Capiz, Philippine Islands
Herold, Herbert Ralph	Agr sp		* † Rondebach, South Africa
Heron, Laurence Tunstall	Jnl		* † East St. Louis
Herr, Benjamin Russell	EE	36	* † Sterling
Herrell, Harry Theodore	ME		* † Indianapolis, Indiana
Herrick, Mildred Katherine	LAS (SS)	36	* † Farmer City
Herrick, Norman Gains	Ath	4½	* † Waterman
Herrig, Doris Katherine	LAS		* † Sioux City, Iowa
Herrig, Milton Alexander	Ath	28	* † Sioux City, Iowa
Herrin, Jean	LAS	97	* † Eureka, Missouri
Herrin, Joe	ME		* † Eureka, Missouri
Herrmann, Henry Julius	EE	103½	* † Chicago
Herrod, Mildred Leone	LAS		* † Warrensburg
Herrold, Maurice Frank	Bus	27	* † Columbia City, Indiana
Herron, Ida Adele	LAS		* † St. Louis, Missouri
Herron, Miriam Ermintrude	LAS sp	10	* † Shelbyville
Hersey, Earl William	LAS		* † Savanna
Herter, Cava	SS	6	* † Hardin
Herting, Herold Edward	CE		* † Chicago
Herwig, Lee Conrad	CE	97½	* † Ashton
Herzog, Ralph Benjamin	LAS	36	* † Chicago
Heshin, Herman George	AE		* † Chicago
Heslep, Malcolm Farnsworth	Bus	29½	* † Danville
Hess, Doris Edna	Mus	100½	* † Champaign
Hess, Mrs. Elizabeth Hillier	LAS sp		* † Rumford, Maine
Hess, Lester Simon	SHAEd (SS)	99½	* † Greencastle, Pennsylvania
Hesser, Frank Raymond	Accy	62	* † Urbana
Hesser, George Balchelder	Bus	85	* † Urbana
Hesser, Mary	Bus		* † Urbana
Hessler, Mae Catharine	LAS		* † Villa Grove
Hester, Donald Milton	LAS sp		* † Dallas, Texas
Hewes, Edwin Butcher	LAS	99½	* † Barbourville, Kentucky
Hewes, Ellis Elliott	CerE		* † Chicago
Hewes, George Cavender, Jr.	Arch (SS)	38	* † Barbourville, Kentucky
Hewett, Philip Crane	ME	34½	* † Boston, Massachusetts
Hiatt, Alfred Hoffman	MedP		* † Peoria
Hickman, Ailen Ray	CE	56	* † Danville
Hickman, Feryl Frances, A.B., 1920	LAS irr		* † Urbana
Hicks, Chester Winslow	ME sp	32	* † Washington, D. C.
Hicks, George Mayhew	Bus sp	23	* † Glencoe
Hicks, Reon Darius	FOM	67½	* † Macomb
Hicks, Victor La Naier	Agr sp	66	* † Columbia, Missouri

Hicks, Vivian Elizabeth	LAS	50	† Columbia, Missouri
Hielscher, Martha Concordia	LAS	28	* † Minonk
Higdon, Harold Carey	EE	62½	* † Kansas City, Missouri
Higgins, Alfred Nash	SS	10	† Joliet
Higgins, Frances Mary	Chem		* † Niagara Falls, New York
Higgins, Paul Matthew	Bus	2½	* † Niagara Falls, New York
Higginson, Glenn Dvere	Ed	77	* † Mt. Carmel
Higgs, Arthur Garfield	Law sp	16	* † Harvey
Highfill, Iomogene	HELAS	30	* † Farmer City
Highshew, William Scott	LAS	8	* † Champaign
Hikes, Esther Anna	LAS	43½	* † Chicago
Hilgard, Ernest Ropiequet	ChE		* † Belleville
Hilgard, Georgie	LAS	42	* † Belleville
Hill, Anita Lucile	LAS	67	* † Millersville
Hill, Aubrey Deloss	ChE	8	* † Little Rock, Arkansas
Hill, Dorothy Huntington	HEAgr	68	* † Urbana
Hill, Elizabeth Gladys	LAS		* † Moline
Hill, Gertrude Ozeta, A.B., 1920	SS	130½	† Urbana
Hill, Irving Hammond	IndA	117½	* † Hammond, Indiana
Hill, Pauline Esther	LAS	42	* † Hammond, Indiana
Hill, Raymond Max	Agr	107½	* † Vincennes, Indiana
Hill, Richard Jackson	Bus	68½	* † Detroit, Michigan
Hill, Roy Geibe	Law	5	* † Mt. Vernon
Hill, Sam Houston	Ath	39	* † Champaign
Hill, Thomas Martin	ME (SS)	12	* † Quincy
Hillemeier, Alfred Koesmer	EE	6	* † Champaign
Himelblau, Clara M.	Bus		† Chicago
Himes, Mrs. Margaret Scheib	Mus	21	* † Chicago
Himes, Verna Beatrice	LAS		* † Urbana
Himmele, Irvin Henry	Chem		* † Tower Hill
Himrod, Tracy Woodward	Bus	52½	* † Buffalo, New York
Hincke, William Bernard	LAS	36	* † Waterford, Pennsylvania
Hinckley, Harold Shaw	IndA		* † Piquetteville
Hindle, John Russell	Agr	44	* † Hnsdale
Hindman, Lita Eugene	SHHEEd	60	* † Peoria
Hinds, Almon Wilkinson	CE	142	* † Anna
Hinds, Frederick Joseph	Bus		* † Decatur
Hinkly, Edward Benjamin	Bus	38	* † Berwyn
Hirsch, Louis Henry	EE		* † Chicago
Hirschfeld, John Charles	LawP		* † Cape Girardeau, Missouri
Hirth, Delmar Herman	Agr	53½	* † Champaign
Hiser, Nova Owalla	LAS	31	* † Quincy
Hishitani, Roku	ME		* † Cerro Gordo
Hitch, Charles Bruce	SS	34	* † Tokyo, Japan
Hite, Hugh Homer	Accy	91	* † Bloomington
Hoadley, Lyman Mortimer	CE	36	* † Philpot, Kentucky
Hobbs, Wesley Stratton	ME		* † Sulphur Springs, Florida
Hobson, Frank Amous	Agr	39½	* † Chicago
Hochstrasser, Maude Adelaide	LAS (SS)	60	* † Vincennes, Indiana
Hockenberger, Paul Henry	AE	2½	* † Urbana
Hockman, Dwight Lawrence	EE		* † Columbus, Nebraska
Hodam, Florence Elizabeth	LAS	35	* † Urbana
Hodam, Lowell Alexander	Agr	44	* † Ludlow
Hodde, Harry Lloyd	IndA	31	* † Ludlow
Hodelman, Louis	MSE		* † Springfield
Hodge, Kathrine Coleman	SS	5	† Waukegan
Hodges, Glen Caroway	Ins	39	* † Princeton, Kentucky
Hodges, Harriette Lois	CCS	97½	* † Ridgefarm
Hodges, Jefferson Houston	Bus	48½	* † Rock Island
Hodgin, Robert Chatfield	Flor	28	* † Orlando, Florida
Hodgson, Horace Mulford	Jnl (SS)	102½	* † Richmond, Indiana
Hodson, Glendon Conley	LawP	31	* † Rockford
Hoefer, Herbert	AE	35	* † Centralia
Hoff, Arthur Stanley	CE		* † Davenport, Iowa
Hoffman, Harry Burton	Agr	89	* † Oak Park
Hoffman, John Brewster	Chem (SS)	98½	* † Champaign
Hoffman, Josephine Frances Beatrice	LAS	64½	* † Kewanee
Hoffman, Laura Evelyn	LAS		* † Spring Valley
Hoffman, Mayme Gertrude	SS	83½	* † Chicago
Hoffman, Robert Arthur	Bus		* † Spring Valley
Hoffman, Roy Francis	ChE		* † Yonkers, New York
Hoffman, Frances Bernice	LAS	31	* † Modesto, Kansas
Hogan, Clara Louise	Bus	26	* † Chicago
Hogan, Ellene Cecelia	Bus		* † Byron
Hoge, Robert Henderson	EE		* † Byron
Hogle, Eulita Dorothy	SHA Agr	31	* † Huntington, West Virginia
Hogue, Leland Jamieson	EE	82½	* † Evanston
Hohenstein, Arthur Edwin	Law	23	* † Monmouth
Hoie, Hakon Sverre	LAS	31	* † Bloomington
Hoinville, John Recer	Agr	33½	* † Kristiania, Norway
Hokenson, Carl	ChE	32	* † Chicago
Holbert, Luvern Kenneth	ME sp		* † Canton
Holbrook, Elizabeth Mae	SS	7½	† Starlight, Pennsylvania
Holderby, Robert Andrew Parker	SS	5	* † Ashley
Holderman, Samuel James	Bus		* † Cairo
Hole, Beulah Margaret	SS		* † Morris
			* † Ridgefarm

Holland, Mabel Ruth	LAS		* † Omaha
Holland, Knight Otha	SS	8	* † Omaha
Hollander, Ethel Mary, B.S., 1920	SS	130½	* † Chicago
Hollem, Amy Irene	Mus	45	* † Rockford
Holler, Lee Scholfield	Agr (SS)	61½	* † Marshall
Hollgren, Albin Per	Voc vs p	23	* † Cambridge
Hollingshead, Thomas Elijah	Chem (SS)	67	* † Zion
Hollinshead, Bayard Hubbell	LawP	23	* † Thomson
Hollis, Barbara Herndon	Mus		* † Little Rock, Arkansas
Holloway, Wilbert Louis	LAS sp		* † Indianapolis, Indiana
Hollowell, John Delos, Jr.	Bus	40	* † Chicago
Holman, Roy Lester	Agr sp		* † Carroll
Holmes, Albert Allen	SS	24	* † Augusta
Holmes, Andrew Welwood	Ath	19½	* † Chicago
Holmes, Averill Keith	Bus	17	* † Lewiston
Holmes, Claude Ernest	Agr	54½	* † Lindenwood
Holmes, John Kenneth	ME	37	* † Danville
Holmes, Mildred Luella	LAS	64	* † Chicago
Holmes, Parker Manfred	Agr	68	* † Normal
Holmgren, Irving Joel	EE	40	* † Evanston
Holnback, Bernice Lucille	SS	7	* † Greenfield
Holson, Richard Lee	LAS	39	* † Farina
Holst, William Henry	LAS	34	* † Granite City
Holston, James Benjamin	EE	36	* † Nashville
Holston, Laurence Leland	LAS		* † Nashville
Holt, Elizabeth Warner	HELAS	75	* † Chicago
Holt, Herbert Edward	Bus (SS)	112	* † Wheaton
Holt, Lester Hampton	Bus	66	* † Wheaton
Holt, Nellie	HELAS	101½	* † Greenup
Holt, Thomas Jasper	ForC	12½	* † Nashville, Tennessee
Holtermann, Ina Lucile	HELAS (SS)	106	* † Sadorus
Holtermann, Veta Merle	LAS		* † Sadorus
Holton, William Buttman	ChE	100½	* † Olmsted Falls, Ohio
Holtz, Alvin	Bus	18	* † Evansville, Indiana
Holz, Mary Alice	LAS		* † Buckley
Holz, Pearl Palmer	HELAS	51	* † Champaign
Holzberger, Glen John	CE		* † Hamilton, Ohio
Holzgraebe, Elmer John Carl	ME		* † Quincy
Holzinger, William Homer	LAS		* † Geneseo
Homan, Earl Wilson	AE	102	* † Kansas City, Missouri
Hon, Howard Leon	Bus		* † Grayville
Honens, John Gustavius	Accy	23	* † Sterling
Honn, Ruth	LAS		* † Champaign
Hood, Phyllis Elinor	LAS		* † Sparta
Hooper, Harold Leslie	IndA		* † Nekeosha, Wisconsin
Hooper, Opal Irene	LAS		* † Dana, Indiana
Hoopes, Charles Oliver	LG	25	* † Chagrin Falls, Ohio
Hooton, Donald Wesley	Bus	31½	* † Danville
Hoover, Glenn Franklin	Agr	33	* † Morrison
Hoover, Glen Le Pevre	ForC	105½	* † Sterling
Hoover, Regine	Agr	40	* † Columbus, Ohio
Hoover, Ruth Irene	LAS	103¾	* † Livingston
Hopkins, Harvey Childs	LAS		* † Urbana
Hopkins, Helen Millar	Chem	61½	* † Urbana
Hopkins, James Harold	MedP		* † Walnut
Hopkins, LeRoy T	Agr	62¾	* † Walnut
Hopkins, Mary Ann	Jnl	66	* † Peoria
Hopkins, Ralph Yount	RA		* † Urbana
Hopperstad, Blanche Janet	LAS		* † Capron
Hopping, Helen Sylvesta	Ed	108	* † Glen Elyn
Hopping, Louise M	LAS		* † Springfield
Hopping, Ruth Jeanette	Flor	99	* † Glen Elyn
Horn, Howard Herman	Bus		* † Centralia
Horn, Reinhold William	Bus	27½	* † Chicago Heights
Hornback, Robert Hellstern	EE	66	* † Greenview
Horner, Edwin Arno	AE	65½	* † Kewanee
Horner, Ruth Hermione	Jnl	34	* † Champaign
Horning, Mrs. Mabel Catherine	SS		* † Raleigh
Horning, Otha Inez	HELAS	47½	* † Urbana
Hornor, James David	Agr	29	* † Bismarck
Horr, Oren Glenn	Agr	39	* † Taylorville
Horrell, Sarah Elizabeth	LAS	33	* † Olney
Horrell, Albert Josephson	Bus	26	* † Chicago
Horsfield, Robert W	ForC	48½	* † Topeka, Kansas
Horst, Lester Richard	IndA	40	* † Rock Island
Horton, Frank Graeff	IndA	45½	* † Chicago
Horton, John Walker	IndA		* † Chicago
Hosford, Amy Ruth	LAS		* † Geneseo
Hosford, Susie Lillian	LAS (SS)	3	* † Champaign
Hoskins, Florence	HELAS (SS)	37	* † LaGrange
Hostettler, Oliver Clinton	SS	40½	* † Charleston
Hostettler, Jean Shaw	Ath	32	* † Olney
Hotelling, Ralph Addison	EE		* † Rockford
Hottes, Flora Emily, A.B., A.M., 1918, 1919	Lib (SS)	6	* † Urbana
Hottinger, Helen June	LAS	38	* † Muncie, Indiana

Hotz, Carl Julius Henry	MedP		* †	Marissa
Hotz, John William	MedP (SS)	58½	* †	Marissa
Houchin, Clarence Elmer	CE		* †	Pontiac
Hough, Ernest Ray	SS	44	* †	Champaign
Hough, George Jere	LAS	53	* †	Maywood
Hough, Lida C	LAS	56	* †	Chicago
Hough, Warren Roberts	Bus	100½	* †	Port Angeles, Wisconsin
Hougham, Ethel Beatrice	Mus	29	* †	Bellflower
Houghton, Leatha Lillian	LAS	65	* †	Peoria
Houghton, Paul Jerome	Bus		* †	Atlanta
Hounsley, Clara Ann	LAS	107	* †	Carlinville
House, Leona Pearl, A.B., 1898	Mus irr		* †	Champaign
Housel, Byron La Salle	Ath		* †	Bergen, New York
Housel, Charles Edward	MSE (SS)	95½	* †	DeKalb
Houser, Arthur Martin, Jr.	ME	123	* †	Oak Park
Houser, Doris I.	HEAgr		* †	Farmer City
Hovey, Alfred Dominicus	Bus	22½	* †	Nokomis
Hovey, Russell Wilson	Agr (SS)	110½	* †	Capron
Howard, Agnes Christine	LAS sp		* †	Chicago
Howard, Albert Marshall	CE	35	* †	Chicago
Howard, Charles Girard	Lcw	22	* †	Oakwood
Howard, Clifford Walter	Bus		* †	Jamestown, New York
Howard, Daniel Orson	Bus	90	* †	Champaign
Howard, Frank Swan, Jr.	EE	2	* †	Aurora
Howard, George Edmund	SS	15½		Farina
Howard, Homer Presley	Bus		* †	Covington, Indiana
Howard, John Carver	EE (SS)	37½	* †	Champaign
Howard, Mabel Luella	Bus		* †	Champaign
Howard, Mabelle Lorraine	LG	81	* †	LeRoy
Howard, Robert Lee	LAS	97	* †	Donnellson
Howe, Alice Manette	SS	2		Rantoul
Howe, Carl, Jr.	Agr sp	32	* †	Oak Park
Howe, Carleton Gibson	Agr (SS)	67	* †	Glen Ellyn
Howe, Dorothy Esther	LG (SS)	36	* †	Urbana
Howe, Eleanor	HEAgr	66½	* †	Honewood
Howe, Frederick King	CE	45	* †	Downers Grove
Howe, Harriet	LAS		* †	Urbana
Howe, Roscoe Leland	Agr	29	* †	Mansfield
Howe, Willard Russell	Agr	12	* †	Mansfield
Howe, William Clayton	Agr	93½	* †	Mansfield
Howie, John Lloyd	EE	67	* †	Chicago
Howorth, Edmund Briggs	LawP	23	* †	Chester
Hoyer, Laurence Edward	Bank	114	* †	Battle Creek, Iowa
Hoyerman, William Richard	ME		* †	Chicago
Hrabik, William Kenneth	Law	65	* †	Murphysboro
Hrdlicka, Bohnmilla	LAS	100½	* †	Rockford
Hrdlicka, Vivian	LAS	19½	* †	Rockford
Hsiu, Hsien Dzoh	Agr		* †	Hunan, China
Hsu, Dung Bie	ChE		* †	Shanghai, China
Hsu, Wellington Shang	Agr		* †	Shanghai, China
Hsu, Ying	Bus		* †	Hunan, China
Hu, Tsun Chan	For		* †	Tientsin, China
Huang, Chin Hsun	RA (SS)	115	* †	Canon, China
Huang, Kuo Hsiang	IndA		* †	Washington, D. C.
Hubbard, Karl Hammond	EngPh	35	* †	Quincy
Hubbard, Paul Henry	Jnl	64½	* †	Lincoln
Hubbard, Roger Wolcott	LAS(SS)	68½	* †	Kankakee
Hubbard, Richard Paul	Jnl	60	* †	Monticello
Hubbell, Edward Lawrence	Arch	97	* †	Davenport, Iowa
Huber, John Bartholomew	Bus (SS)	96½	* †	Urbana
Huber, Leo	SS			Nekoosa, Wisconsin
Huber, Louis William	MinE	105½	* †	Urbana
Huckins, Donald Sinclair	Agr		* †	Kankakee
Hudgens, Elsie Alela	HELAS	73½	* †	Johnston City
Hudson, Grace Marie	HEAgr		* †	Urbana
Hudson, James Edward	MSE		* †	Galva
Hudson, James Rollan	Agr	64	* †	Springfield
Huff, Clyde Everet	Bus	22½	* †	St. Joseph
Huff, Helen Elizabeth	LG	66	* †	Champaign
Huffer, Enos George	Agr (SS)	54½	* †	Urbana
Huffer, Flossie Minnie	HEAgr		* †	Urbana
Huffine, Karl Burdette	SS			Hammond, Indiana
Huffman, Eugene Stewart	Chem	126	* †	Rockford
Huffman, Lester C	Agr		* †	Harrisburg
Hug, Gladys Louise	LAS		* †	Highland
Huggins, Else-jean	Jnl	32	* †	Belleville
Hugh, John Hermann	Voc w/p		* †	Peoria
Hughes, Alberta	LAS	92½	* †	Sullivan
Hughes, Henry Loren	Agr	95	* †	Table Grove
Hughes, Kathryn Howard	Mus	58½	* †	Dowagiac, Michigan
Hughes, Morris Nelson	Bus (SS)	57½	* †	Champaign
Hughes, Russell R	Bus		* †	Harvey
Hughes, Sherman Kelso	Bus		* †	Champaign
Hughitt, Anna Lue	LAS	26	* †	Escanaba, Michigan
Hulick, Claude Otis	LAS		* †	East St. Louis
Hull, Dorothy Elizabeth	LAS	39½	* †	Onarga



Hull, James Montgomery	<i>Agr</i>	8	* † <i>Urbana</i>
Hull, Lucile Jane	<i>SS</i>	20	* † <i>Mattoon</i>
Hull, Mabel Ruth	<i>LAS</i>		* † <i>Urbana</i>
Hull, Thomas Clinton	<i>Bus</i>	58½	* † <i>Wheaton</i>
Hullfish, Henry Gordon	<i>LAS sp</i>	104	* † <i>Washington, D. C.</i>
Hulsebus, Gretchen Ruth	<i>Jnl</i>	58½	* † <i>Peoria</i>
Humphrey, Arthur Cole	<i>Bus</i>	49½	* † <i>St. Louis, Missouri</i>
Humphrey, Charles Robert	<i>Bus</i>	35	* † <i>Decatur</i>
Humphrey, Evelyn Myrtle	<i>Bus</i>		* † <i>Wilmette</i>
Humphrey, Mary Louise	<i>LAS</i>		* † <i>St. Louis, Missouri</i>
Humphrey, Roy Alonzo	<i>ME sp</i>		* † <i>Salem, Indiana</i>
Humphreys, Evelyn Julia	<i>SS</i>	6	* † <i>Elmwood</i>
Humrichouse, Gladys	<i>LAS (SS)</i>	44½	* † <i>St. Joseph</i>
Hunolt, Domitilla	<i>LAS</i>		* † <i>Edina, Missouri</i>
Hunsaker, Bain Wallace	<i>EngPh</i>		* † <i>Buncombe</i>
Hunsche, Grace Maria	<i>HELAS</i>		* † <i>Chicago</i>
Hunsley, Alice Lillian, A.B., 1918	<i>SS</i>	135	* † <i>Champaign</i>
Hunsley, Lorne Edison	<i>Aer</i>		* † <i>Edinbure</i>
Hunt, Carroll Robert	<i>Bus</i>	29	* † <i>Chicago Heights</i>
Hunt, Dorothy Kimball	<i>LAS</i>	64½	* † <i>Oshkosh, Wisconsin</i>
Hunt, Edith Irene	<i>HELAS</i>		* † <i>Marshall</i>
Hunt, Kenneth	<i>Agr</i>	54½	* † <i>Roodhouse</i>
Hunt, Leonard Garland	<i>IndA</i>	47½	* † <i>Springfield</i>
Hunt, Nellie Frances	<i>LAS</i>	32	* † <i>Marshall</i>
Hunt, Valentine Brewster	<i>Arch</i>	142	* † <i>Kansas City, Missouri</i>
Hunt, Wiley Emery	<i>Bus</i>	35	* † <i>Gibson City</i>
Hunt, William Clare	<i>ForC</i>	31	* † <i>Wheaton</i>
Hunter, Esther Louise	<i>HELAS</i>	32	* † <i>Henry</i>
Hunter, George William	<i>Bus</i>		* † <i>Fairfield</i>
Hunter, Harold Leslie	<i>EE</i>	61½	* † <i>Pesotum</i>
Hunter, Jean Gladys	<i>SS</i>	6	* † <i>Galesburg</i>
Hunter, John William	<i>SS</i>	20	* † <i>Colchester</i>
Hunter, Oscar Lee	<i>Bank</i>	68½	* † <i>Shawnee, Oklahoma</i>
Huntington, Bertha May	<i>Accy</i>		* † <i>Urbana</i>
Huntington, Harold Allen	<i>IndEd</i>	8	* † <i>Urbana</i>
Huntington, Lloyd Lucius, B.S., 1920	<i>LAS irr</i>	141	* † <i>Urbana</i>
Huntington, Margaret Alice	<i>SS</i>	63	* † <i>Aberdeen, South Dakota</i>
Huntington, Mary Louisa	<i>LAS</i>		* † <i>Ladoga, Indiana</i>
Hurd, Edwin Charles	<i>CE</i>		* † <i>Indianapolis, Indiana</i>
Hurst, Rella Victor	<i>SS</i>	8½	* † <i>Adrian, Michigan</i>
Hurt, Erwin Fred	<i>Accy</i>	66½	* † <i>Oak Park</i>
Huse, Esther	<i>LAS</i>		* † <i>Manchester, New Hampshire</i>
Hust, George William	<i>IndA</i>	31	* † <i>Chicago</i>
Husted, Granger	<i>ME</i>	32	* † <i>Zion City</i>
Husted, Guy Harold, B.S., 1915	<i>SS</i>	147	* † <i>Roodhouse</i>
Huston, Harold Lee	<i>LAS</i>	106	* † <i>Crawfordsville, Iowa</i>
Hutchins, Frank Hilliard	<i>Bus</i>	5	* † <i>Urbana</i>
Hutchinson, John Theodore	<i>CerE</i>	30	* † <i>Carbon, Indiana</i>
Hutton, Noble Eugene	<i>ChE</i>		* † <i>Sesser</i>
Hutton, Eugene Harold	<i>Aer</i>	60	* † <i>Charleston</i>
Huxel, Charles Jacob	<i>Agr</i>	82	* † <i>Granite City</i>
Hwang, Chung Su	<i>LAS</i>		* † <i>Nanking, China</i>
Hyde, Catherine Sarah	<i>LAS</i>		* † <i>Malone, New York</i>
Hyde, George Chester	<i>ME</i>		* † <i>Watertown, New York</i>
Hyde, Paul Adams	<i>Bus</i>		* † <i>Malone, New York</i>
Hyde, Rosa Kate	<i>Mus sp</i>	26½	* † <i>Champaign</i>
Hyland, Christine Barbara	<i>Ed</i>	67	* † <i>Urbana</i>
Hyle, Kenyon Athling	<i>Chem</i>	92½	* † <i>White Hall</i>
Hylar, Frances Willard	<i>LG</i>		* † <i>Oklahoma City, Oklahoma</i>
Hyte, Charles Thomas	<i>SS</i>	6½	* † <i>Terre Haute, Indiana</i>
Iben, Richard	<i>AE</i>	72	* † <i>Peoria</i>
Ibenfeldt, Ralph Winfield	<i>ME</i>	119	* † <i>Chicago</i>
Iberg, Eugene Jacob	<i>Voc vsp (SS)</i>	16	* † <i>Highland</i>
Icenogle, Carus Stanley	<i>Law</i>		* † <i>Mattoon</i>
Ide, Agnes Dorothy	<i>LAS</i>	38	* † <i>Creston, Iowa</i>
Ide, Robert Armington	<i>Bus</i>	121½	* † <i>Washington, D. C.</i>
Iftner, George Henry	<i>Agr</i>		* † <i>Pittsfield</i>
Illyes, Clifford Raymond	<i>Agr</i>	105	* † <i>Atlanta, Indiana</i>
Illyes, Frances Mary	<i>LAS</i>		* † <i>Palestine</i>
Imlay, Robert John	<i>LG</i>	30½	* † <i>Champaign</i>
Ingle, Willis Hilliary	<i>EE</i>		* † <i>Saybrook</i>
Ingold, Arthur Johnson, Jr.	<i>ME</i>	68½	* † <i>Appleton, Wisconsin</i>
Ingram, Robert Paul	<i>Chem</i>	37½	* † <i>Chicago</i>
Ingram, William Coy	<i>LawP</i>		* † <i>Kimmunity</i>
Ingwersen, Philip Augustin	<i>Agr</i>	65	* † <i>Chicago</i>
Ingwersen, Richard	<i>EE</i>		* † <i>Chicago</i>
Inman, James Franklin	<i>ME</i>		* † <i>Chicago</i>
Inman, Leona	<i>SS</i>		* † <i>Indianapolis</i>
Inman, Richard Frank	<i>MedP</i>	33	* † <i>Chicago</i>
Innes, David Hanson	<i>ME</i>		* † <i>Chicago</i>
Innis, Charles Albert	<i>LAS sp</i>	29	* † <i>Bellflower</i>
Ireland, Enid Emily	<i>LAS</i>	97	* † <i>Quincy</i>
Irick, Carl Cuthbert	<i>SS</i>	86	* † <i>Hadley</i>
Irwin, Howard Emsley	<i>Arch</i>	59½	* † <i>Quincy</i>
Irwin, Sidna Ferne	<i>SS</i>	16	* † <i>Beason</i>
Iseberg, Meyer	<i>IndA</i>		* † <i>Chicago</i>

Isehart, Laurence Francis	LAS	34½	* † Mt. Carroll
Ismail, Lyn Mohamad	EE		* † Johannahad, India
Isobe, Seichi	IndA (SS)	91½	* † Los Angeles, California
Israel, Kathryn	ComT		* † Shelbyville, Indiana
Ittner, Scott Burrill	Bus		* † St. Louis, Missouri
Iungerich, Viola	LAS (SS)	48	* † Champaign
Iverson, Alvin Edward	IndA	32	* † Chicago
Izzard, Arthur John, Jr.	LG	29	* † Independence, Missouri
Izzard, Wesley Sherman	Jnl	35½	* † Independence, Missouri
Jack, Elmer Simmons	Agr	72	* † Wadsworth
Jack, John Marshall	CE	71½	* † Wadsworth
Jack, Mary Louise	LAS		* † Wadsworth
Jack, Morris Stanley	Agr	30	* † Wadsworth
Jack, William Ralston	Agr	47½	* † Springfield
Jackel, Herbert Arthur	EE		* † Chicago
Jackman, Warren S	ChE		* † Elgin
Jackson, Andrew Stokes	LAS	86½	* † Champaign
Jackson, Charlotte	HEAgr		* † Oblong
Jackson, Clifford Lawrence	EE (SS)	62½	* † Berwyn
Jackson, Erma Mildred	SS	7	* † Rutland
Jackson, Ernest Theodore	SS	94½	* † Odin
Jackson, Euris	SS	15	* † Mt. Vernon
Jackson, Ferris Columbus	SS	8½	* † Harford, Michigan
Jackson, Mrs. Myrna Griffith	SS	6½	* † Brownstown
Jackson, Opal Louise	LAS	36	* † Decatur
Jackson, Ralph William, B.S., 1920	SS	130	* † Urbana
Jackson, Richard Willet	SS	8	* † Eureka
Jackson, Russell Raymond	EE	42½	* † Urbana
Jackson, Walter Henry	CE	21	* † Toulon
Jacobs, Donald Lee	ME	108½	* † Trivoli
Jacobs, Russell Lawrence	MinE	8	* † Chicago
Jacobson, Carl Clifford	ME	68½	* † Chicago
Jacoby, James Alexander	SS	8	* † Burlington, Iowa
Jaicks, Stanley Harry	LAS sp	28	* † River Forest
James, Hallie Mae	LAS		* † Champaign
James, Harold Thomas	Bus		* † Seymour, Indiana
James, Hobart Carrington	Bus	25½	* † Rockford
James, Walter Franklin	MedP sp		* † Champaign
James, Walter Robert	Bus	101½	* † Oak Park
Jamais, Luis Edralin	ME		* † Sarrot, Phillippine Islands
Jame, Lawrence Allan	Bus		* † Terre Haute, Indiana
Jamieson, Charline	SS		* † Indianapolis, Indiana
Jamieson, Ethel	LAS	96	* † Canton, New York
Jamison, David Newton	LAS	80½	* † Burlington, Iowa
Janes, Milo	Arch	54½	* † Lafayette
Jankowski, Zdzislaw Stanistan	Bus		* † Chicago
Janowitz, Rose Harriette	Jnl		* † Waukegan
Jansen, Herbert Daniel	Arch		* † Oshkosh, Wisconsin
Jansen, James Nathan	IndA	29	* † Pekin
Jansen, Ruth Evelyn	LAS sp	23	* † Kankakee
Janssen, Herman Gerard	Agr		* † Chicago
Jansson, Martin Ernest	CE	42	* † Chicago
Janz, Arthur William	IndA (SS)	49½	* † Peru
Jardine, Ray	EE sp	23½	* † Spring Valley
Jarrett, Harry William	Voc vs sp	32	* † Roby
Jasperson, Clarence Philip	MedP	93	* † Topeka, Kansas
Jaycox, Noble Edward	SS	17	* † Watson
Jeffers, Adrienne	Mus		* † Urbana
Jeffers, John Dewey	Arch	51½	* † Oklahoma City, Oklahoma
Jeffery, Richard Werner	Agr	104½	* † Aruppukottai, India
Jeffrey, Helen Mary	LAS		* † St. Louis, Missouri
Jenkins, Carter	CE	156	* † Champaign
Jenkins, Lyman Hall	Bus		* † Carthage
Jenkins, Theodore Robert	Bus		* † El Paso
Jenner, Henry Harlan	Agr	9	* † Pochontas
Jennett, Harold Patrick	EE	125½	* † Sreator
Jennett, Marie Elizabeth	LAS		* † Hoopeson
Jennings, Edgerton Ryerson	Bus		* † Chicago
Jennings, Forrest Harmon	LG	74	* † Mason City
Jensen, Siegfert Amanuel	ME	36	* † Dwight
Jervis, Florence May, B.M., 1916	Mus irr	145	* † Champaign
Jessen, Paul	Agr		* † Alto Pass
Jessen, Virgil Tvilstedgaard	Agr	90½	* † Alto Pass
Jewell, Edward Clinton Scott	ME		* † Chicago
Jewell, Edythe Lucile	LAS sp		* † Champaign
Jewell, Lura Marion	LAS	98½	* † Colorado Springs, Colorado
Jewell, William Ray	EE		* † Danville
Jewett, Joseph Eugene	CE	41	* † Kansas City, Missouri
Jimenez, Joseph I	Accy sp (SS)	34	* † Panama City, Panama
Jirka, Frank Joseph	EE	108½	* † Chicago
Jo, Kiichi	ChE	37½	* † Honokaa, Hawaii
Jobst, Chester Albert	LawP	37	* † Chicago
Joern, Henry Alfred	ME		* † Chicago
Joffe, Morris	ChE	66	* † Chicago
Johansen, Fred Emil	AE	121½	* † Chicago
Johns, Harold Byron	ChE	70½	* † Oak Park

Johns, Harry Alfred, Jr.	EE	38	* † Kankakee
Johns, Harry Corwin	LAS	32½	* † Ellery
Johns, Jesse Roy	Chem (SS)	103½	* † Rockford
Johns, Roy William	LawP		* † Chicago
Johnsen, Hans Christian	CE	92½	* † Chicago
Johnson, Arno Charles	EE	122½	* † Donovan
Johnson, Arvid Tegner	Bus		* † Greenville
Johnson, Bruce Ward	IndA	72½	* † Rockford
Johnson, Carl Lester	LawP	24	* † Mt. Vernon
Johnson, Carl Wilhelm	Bank	107	* † Batavia
Johnson, Charles Bayard	Bus	93½	* † Rockford
Johnson, Clara Loys	Jnl	15	* † Chicago
Johnson, Claude Francis	ME	39½	* † South Haven, Michigan
Johnson, Clinton Goodloe	LG	51	* † Danville
Johnson, Dewey Woodruff	CE	67½	* † Marshall
Johnson, Edgar Jerome	ForC	75	* † Orin
Johnson, Edward Norman	Voc esp (SS)	25	* † Galesburg
Johnson, Eleanor Lucile	LAS		* † Bellflower
Johnson, Elmer Albert	CE	73½	* † Rock Island
Johnson, Elmer Thomas	Bus	97½	* † Rockford
Johnson, Emil Balder	ME	4½	* † Cary Station
Johnson, Ernest Clayton	ME	15½	* † Champaign
Johnson, Ethan Allen	SS	83½	* † Kankakee
Johnson, Evelyn Charlotte	LAS	49½	* † Chicago
Johnson, Evelyn Cleona	LAS		* † Capron
Johnson, Everett Louie	Agr	104	* † St. Charles
Johnson, Fay Warren	Law	39	* † Sidney
Johnson, Florence Ida	LAS	52½	* † Chicago
Johnson, Mrs. Frank Tatham	SS	1	* † Albia, Iowa
Johnson, Franklin Pitcher	Agr		* † St. Louis, Missouri
Johnson, George Dillon	Bus		* † Danville
Johnson, Gustaf Adolph	EE	8	* † Bloomington
Johnson, Hannah Othalia	LAS		* † Chicago
Johnson, Harold Urban	Accy	101½	* † Anchor
Johnson, Harry Benjamin	IndA	37	* † Topeka, Kansas
Johnson, Harry Edward	ME	81	* † Omaha, Nebraska
Johnson, Helen Martha	LAS		* † Champaign
Johnson, Helen W	LAS	67½	* † Champaign
Johnson, Hjalmar William	MinE	87½	* † Joliet
Johnson, James Francis	Agr	30	* † Warsaw
Johnson, James Glynn	Bus	24½	* † Champaign
Johnson, John Henry	SS	7½	* † Mapleton
Johnson, John Robert	Bus		* † Mattoon
Johnson, Katharine Helena	LAS	66	* † Galesburg
Johnson, Laurence Edward	ChE		* † Tuscola
Johnson, Leland Taylor	LAS	17½	* † Urbana
Johnson, Leroy William	Jnl	40	* † Chicago
Johnson, Lowell Norman	Bus	48	* † Moline
Johnson, Lucy Ellen	LAS		* † Pana
Johnson, Mildred Hope	HELAS		* † Chicago
Johnson, Neil Rudolph	Agr	16	* † Altona
Johnson, Otis Floyd	Arch	97	* † West Point, Indiana
Johnson, Paul LaForest	REE	58	* † Los Angeles, California
Johnson, Paul Oscar	CE		* † Oregon
Johnson, Ralph N	LG	115	* † Knoxville
Johnson, Raymond Cornelius	Bus	20	* † Chicago
Johnson, Reinhold Enoch	MedP	42½	* † Chicago
Johnson, Russell Harold	ME	68	* † Moline
Johnson, Theodore	Jnl	36	* † Los Angeles, California
Johnson, Thomas Peirce	LAS	17½	* † Homer
Johnson, Vivian Naomi	SS	8	* † Woodhull
Johnson, Walter Emanuel	IndA	4½	* † Topeka, Kansas
Johnson, Walter Lane	Agr	58½	* † Assumption
Johnson, Walter Ryerson	LAS	25	* † Diernon
Johnson, Warren Hoff	Flor	72	* † Kendallville, Indiana
Johnson, Wilbur Elihu	LawP	4	* † Rockford
Johnson, Clarence Melville	Agr	111	* † Warsaw
Johnson, George Seely	Bus		* † Champaign
Johnson, Hazen Henry	CCS (SS)	101	* † Ft. Wayne, Indiana
Johnson, Joseph Edwin	Bus		* † Chicago
Johnson, Margaret Adeline	LAS	37½	* † Alton
Johnson, Perry Floyd	Bus		* † Sibley
Johnson, Ralph English	ME		* † Chicago
Johnson, Robert Jordan	Agr	57½	* † Pontiac
Johnson, Winifred Belle	LAS sp		* † Urbana
Johnnott, Grace Marie	HELAS		* † Champaign
Jolly, Meta Georgia	Jnl (SS)	66½	* † Champaign
Jones, Arthur Sherwood	Agr	35	* † Tuscola
Jones, Asa William Peter	Agr	57	* † Champaign
Jones, Bertha Marie, A.B., 1911	SS	144½	* † Champaign
Jones, Carl Delmar	FOM	47	* † Midland
Jones, Christine Elizabeth	LAS		* † Muncie, Indiana
Jones, Delmar Lee	Agr	35	* † Bloomington
Jones, Elbert Kepler	ChE	27	* † Kenilworth
Jones, Elizabeth Sophia	Ed	98	* † Raymond
Jones, Glenn Abiah	ChE		* † Medina, New York

Jones, Herbert Richard	IndA	28	* † East Chicago, Indiana
Jones, Horace Walker, Jr.	Bus	4	* † Chicago
Jones, Howard Lewis	EE	43	* † Sidell
Jones, James Knox	Bus	24	* † Wayne, Nebraska
Jones, Llewellyn	EE	55	* † Vici, Oklahoma
Jones, Mary Emily	LAS	53	* † Amboy
Jones, Maurice Leigh	Jnl (SS)	57½	* † Johnston City
Jones, Ralph Coughenour	Bus	74	* † Fairfield
Jones, Raymond Lewis	ChE		* † Michigan City, Indiana
Jones, Robert Moore	Agr	34	* † Wilmette
Jones, Sherman	Agr sp		* † Pinckneyville
Jones, Thornton Price	CE	4	* † Williamsville
Jones, Valentine Austin	Chem	113½	* † Buffalo, New York
Jones, Vernie Allen	SS	18½	* † Willow Hill
Jones, Vivian Myfanwy	LAS (SS)	78	* † Aurora
Jones, Walter Spencer	ME	95	* † Chicago
Jones, Willard	ChE	70	* † Egan
Jones, William Archie	MedP		* † Carriers Mills
Jordan, Byron Henry	Bus	65	* † Elkhart, Indiana
Jordan, Mrs. Grace Brandon	SS	1½	* † Carbondale
Jordan, Harold Emery	LAS	55½	* † Chicago
Jordan, Julien	ChE	8	* † Chicago
Jordan, Mary Madeline	Accy	31	* † Clinton
Jordan, Roy Vail, A.B., 1920	SS	130½	* † Urbana
Jorden, Myrtle May	Jnl		* † Sesser
Joseph, Glenn Howe	ChE	65½	* † Tuscola
Joshi, Anant Keshao	Chem		* † Bombay, India
Joyner, Louise	LAS	33	* † Harrisburg
Juckett, Harold Francis	Law sp		* † Hot Springs, South Dakota
Judah, Charles Burnett, Jr.	LAS		* † Vincennes, Indiana
Judd, Alice Gertrude	LAS		* † Chicago
Judd, Florence Ruth	Bus sp		* † Kankakee
Judy, Viola Elizabeth	LAS	70½	* † Potomac
Julien, Estelle Maude	LAS		* † Sheldon
Juline, Carl	AE	121½	* † Des Moines, Iowa
Jung, Frederick William	EE		* † Woodstock
Jungk, Irene Theodore	LAS	26	* † Chicago
Jungmann, Harold Leon	ChE	34	* † St. Louis, Missouri
Jurgens, Johanas John	LAS	28	* † Savanna
Juric, Joseph Peter	IndA	47½	* † Champaign
Justus, Paul Kilbride	Agr	97	* † Ipaiva
Kadison, Barnett	Accy		* † Chicago
Kadyk, David James, A.B., 1919	Law	36	* † Fulton
Kadyk, John Claudius	Bus	65	* † Fulton
Kaemper, Ernest Fred	ME	31	* † East St. Louis
Kagy, Leigh Monroe	LawP	71	* † Salem
Kahoun, John Anton	LAS		* † Chicago
Kaiser, Charles Glenn, A.B., 1918	SS		* † Walton, Indiana
Kaiser, Clifford Allen	ChE	6½	* † Chicago
Kaiser, Edward William	Bus	47½	* † Chicago
Kaiser, Herbert Harlan	Bus	32½	* † Monticello
Kaiser, Paul William	Bank	81	* † Chicago
Kallas, James George	Agr	65½	* † Chicago
Kalver, Roy Lawrence	LAS	95½	* † Fort Wayne, Indiana
Kamm, Blanche Vivienne	LAS		* † Atwood
Kammermann, Clarence	Law	27	* † Forrest
Kammermann, Hermina	LAS	108½	* † Forrest
Kamschulte, Paul Edward	Bus		* † Waukegan
Kane, Clifford C	SS	8½	* † Galatia
Kaney, John Henry	Agr	98	* † Forreston
Kang, Mien Hwa	EE		* † Changsha, China
Kanter, Charles	MedP		* † Chicago
Kappenmacher, Jerome	Chem		* † Chicago
Kapple, Ivan Maurer	Bus		* † Chicago
Karabin, Andrew LeRoy	MedP		* † Chicago
Karber, James Fred	SS	6	* † Chicago
Karber, Mrs. James Fred	SS	3½	* † Karbers Ridge
Karnahan, Hazel Clare	HELAS	32	* † Cave in Rock
Karr, Leslie Harold	Arch		* † Corlinville
Karrer, Roselle M	LAS	115½	* † Vermont
Kartman, Benjamin	Jnl	32	* † Seattle, Washington
Kasjens, Karl Wilton	Bus	4	* † Chicago
Kassel, John Henry Leslie	Bus		* † Peoria
Kastor, Herman Walker	LAS		* † Evanston
Kates, Henry Francis	SS	8	* † St. Louis, Missouri
Kato, Nakaji	RCE sp		* † Pittsburgh, Pennsylvania
Kaufman, Samuel	Jnl	38	* † Tokyo, Japan
Kaufman, Stanley Louis	LAS(SS)	29½	* † Bayonne, New Jersey
Keach, Guy Elston	Bus	8	* † Champaign
Keach, Vernice Eva	HELAS	29	* † Casey
Keal, Mae Iva Ruth	Mus	1	* † Casey
Kebbon, Richard Arthur	Bus	24½	* † Arcola
Keck, Charles Everett	Law	56	* † Chicago
Keele, Harold Marquis	LAS		* † Champaign
Keeler, Otis	SS	68½	* † Monticello
Keeler, Theodosia Julia	LAS	33	* † Brownstown
			* † Earlville

Keenan, James Sargent	Bus		* † LeRoy
Keevil, Charles Ezra	REE	106½	* † Kansas City, Missouri
Keigwin, James Robert	Agr	46½	* † Walnut
Keim, Edwin Emmert	Agr		* † Mt. Carroll
Keith, John Alling	LAS		* † Kenilworth
Keith, Lloyd Wesley	Accy		* † Mt. Pleasant, Iowa
Keith, Nina	LAS (SS)	98½	* † Champaign
Keith, Stuart William	Bus	73½	* † Peoria
Keller, George Ernest	ChE	67½	* † Jonesboro
Kelley, Fannie	LAS (SS)	68	* † Marion
Kelley, Harry William	Bus	32½	* † Glen Ellyn
Kelley, Victor Wendell	Agr sp	8½	* † Fairfield
Kelley, William Herschel	Bus (SS)	39	* † Marion
Kellogg, Elaine Josephine	LAS	69	* † Chicago
Kellogg, Lawrence Otis	Agr sp	7	* † Chicago
Kelly, Charles Holland	IndA	74	* † Bryan, Ohio
Kelly, Inez Juanita	HELAS	101½	* † Greenup
Kelly, Joseph Sherman	ForC	70	* † Watsika
Kelly, Kenneth Francis	AE		* † Tower Hill
Kelly, Loris Irene	Agr	20½	* † Galena
Kelly, Margaret Katherine	Bus	40½	* † Oak Park
Kelsey, Willard Wahl	Accy	104	* † Sterling
Kelsheimer, Eugene Gillespy	Agr	33	* † Paris
Kelso, Esther Isabelle	SS	7	* † Vincennes, Indiana
Kemler, Robert Lynch	EE	117½	* † Elgin
Kemp, Dewey Walter	Bus	39	* † Urbana
Kemp, Ellis Wayne	Agr		* † Wenona
Kemp, Emery Leland	Arch	56	* † Waynetown, Indiana
Kemp, Katherine	LAS	59½	* † Paxton
Kendall, Forrest Everett	Chem	114½	* † Victoria
Kendall, Irene	Chem	36	* † Metcalf
Kendall, Richard George	EE	19	* † Chicago
Kendrick, Merritt Irwin	Agr		* † New Canton
Keniston, Earl Goodsell	Agr	35	* † Manhattan
Kennedy, Elizabeth Sara	Bus	29	* † Sterling
Kennedy, Fletcher Fisher	ME	8	* † Springfield
Kennedy, George Raymond	Bus	15	* † Chicago
Kennedy, Gladys Jones	Mus	32	* † Morrison
Kennedy, John Whittlesey	Jnl sp		* † Lincoln
Kennedy, Pauline Marion	HELAS	93	* † Waverly
Kennedy, Robert Rasbach	Bus		* † Sterling
Kenney, Edward Cody	EE		* † Chicago
Kenney, Henry Fletcher	LG	61	* † Nicholasville, Kentucky
Kenney, John Harvey	C&L	43	* † Champaign
Kenney, Mahlon Wesley	EE	37	* † Loda
Kenny, Herbert Miner	Bus	61½	* † Champaign
Kent, John Paul	CE		* † Palestine
Kent, Lacie Albert	Agr sp		* † Plymouth
Kent, Richard Eugene	Mus (SS)	100½	* † Urbana
Kepley, Leona Ella	LAS		* † Greenville
Kerchner, Delbert Harlow	LAS	33	* † Freeport
Kerchner, Emil Lorenzo	SS	136½	* † Freeport
Kerchner, Russell Marion	EE	70½	* † Belleville
Kern, Dorothea Estell	LG	64	* † Champaign
Kern, Helen Carroll	SS	8	* † Gays
Kerns, Arthur David	EE (SS)	79	* † Taylorville
Kerr, Francis Xavier	IndA		* † Balboa, Canal Zone
Kerr, Harriett Hazel	HEAgr		* † Metropolis
Kerr, Louis Bartlett	ME	16	* † Marshall
Kerr, Ralph	Agr	94½	* † Urbana
Kerrins, Joseph Arthur	Accy	63	* † Chatsworth
Kershaw, Glenwood Haigh	IndA (SS)	98	* † Kankakee
Kerst, Earl Louis	EE	26	* † Dixon
Kertis, Emmeline, Elizabeth	LAS (SS)	54½	* † South Bend, Indiana
Keslar, Francis Murray	Bus	108	* † Keokuk, Indiana
Kesler, Clifford Ray	Bus	2½	* † Danville
Kessler, Walter Burnell	Bus	19	* † Fairbury
Kestler, Joy William	SS	6½	* † Mexico, Missouri
Ketelhut, William Herman	EE	114	* † South Haven, Michigan
Ketner, Elisabeth Stebbins	Bus	27½	* † Marion, Indiana
Kettering, Willard S	SS	3½	* † Lisbon, Iowa
Ketzler, Adolph Carl	Bus	60½	* † Chicago
Keusch, Edwin Frank	EE		* † Kansas City, Missouri
Kibler, Clarence Troit	Agr	105	* † Streator
Kieffer, Chester LeRoy	Jnl	33½	* † Robinson
Kiehn, Robert Arthur	EE	32	* † Chicago
Kienzie, Georgia Florence	HEAgr		* † St. Joseph
Kieran, William Anthony	Bus (SS)	15	* † Danville
Kiest, Calvin Herrick	Agr		* † LaGrange
Kiest, Herschel Orville	Agr	35	* † Lincoln
Kight, Max Hamilton	EE	66	* † Dublin, Texas
Kile, Lucille Faustine	LAS	67½	* † Ivesdale
Kiley, Leo Robert	IndA	27½	* † Chicago
Kiley, Olivia Rae	LAS		* † Kansas
Killefer, Mirian Elizabeth	HEAgr (SS)	28	* † Urbana
Killefer, Raymond Colonius	Chem (SS)	104	* † Urbana

Killian, Ernst Harry	EE		* † Chicago
Killinger, Donald William	MedP		* † Joliet
Kilpatrick, Ralph Sidney	Bus	103	* † Elmwood
Kimball, David Wheeler	LAS		* † Highland Park
Kimmelshue, Florence Ada	HELAS	92½	* † Manteno
Kimmelshue, William Maurice	Agr	115	* † Manteno
Kinahan, Elton	HELAS		* † Illinoispolis
Kinahan, John Charles	ChE	2½	* † Milwaukee, Wisconsin
Kincaid, Hiram Emmons	Bus	61	* † Hume, Missouri
Kindstrom, Melvin Gustav	IndA	32	* † Champaign
King, Albert William	SS	5	* † Terre Haute, Indiana
King, Ameda Ruth	LAS	76	* † White Hall
King, Burton Eldred	Agr	99	* † Plymouth
King, Cecil Ward	Agr	38	* † Avon
King, Clarence Arthur	Ath		* † Elgin
King, Clyde Earl	LAS		* † Eldorado
King, Dana M	SS	6	* † Glenford, Ohio
King, Florence Mary	HEAgr	96½	* † Lacon
King, Frank David	Flor sp		* † Rockford
King, Leo Francis	Bus (SS)	68½	* † Indianapolis, Indiana
King, Marcus Randolph	CE	24½	* † Chicago
King, Mary Edna	LAS	60	* † Athens
King, Maurice Vinton	EE		* † Lakewood, Ohio
King, Walter Bernard	ChE	25	* † Ewing
Kingery, Otis Minor	Agr	36½	* † Toledo
Kingsbury, Franklin Lafin	ChE		* † St. Louis, Missouri
Kingsbury, George Hunt	Bus	90½	* † Indianapolis, Indiana
Kinley, Janet Fraser	LAS		* † Urbana
Kinnane, Arthur John	Law	22	* † Champaign
Kinnane, Charlie Herman Thomas	Law		* † Champaign
Kinney, Andrew Lind	Agr		* † Momence
Kinney, Clarence Miles	Arch	9	* † Ft. Collins, Colorado
Kinney, Myron Melby	Agr		* † Momence
Kinney, Ronald Eugene	ForC	41½	* † Kansas City, Missouri
Kinsey, Esther Eloise, A.B., 1920	SS	132½	* † Champaign
Kinson, Earl Francis	EE	29	* † Williamsfield
Kipp, William Stevens	MedP		* † Chicago
Kiram, Tarhata	Mus sp	1	* † Sulu, Philippine Islands
Kirby, Emmett Robert	SS	8	* † Eureka
Kirby, Lucian Charles	Bus	30	* † Steward
Kirby, Nelle Almeda	Mus	119½	* † Eureka
Kirby, Warren Lyons	IndA	99½	* † Hull
Kirk, Charley Edmund	Agr		* † Oblong
Kirk, Glenn Ladd	Agr		* † Edinburg
Kirk, James Covington	Bus	5	* † Champaign
Kirk, Maurice Donald	Agr		* † Chicago
Kirk, Susie Mary	SS	11½	* † Quincy
Kirk, Thornton Robert Lee	Bus	6½	* † Champaign
Kirkham, Bonnie Jean	Jnl		* † Evanston
Kirkpatrick, Elsie Virginia	LAS	68½	* † Urbana
Kirkpatrick, Thomas Everett	Agr	143	* † Clayton
Kirkpatrick, Vera Lucille	LAS	29½	* † St. Joseph
Kirkpatrick, Vivian Maurine	HELAS	33	* † West Chicago
Kirsch, Jacob Alexander	Bus		* † Benton
Kirwan, Harry Martin	Ath	8	* † Wauconda
Kissinger, Clarence Andrew	Arch	60½	* † Olney
Kissinger, Donald Kenneth	Bus	106	* † Bradford
Kistner, Rosina Clara	HELAS	102½	* † Indianapolis, Indiana
Kitch, Stanley Billings	ME	70½	* † Berwyn
Kitchell, Florence Ethel	HELAS	48	* † Morrisville
Kizer, Clarence	AE		* † Mattoon
Klamser, Harry William	Agr	99	* † Aurora
Klaproth, Norman Thomas	EE	42	* † Chicago
Klaproth, William Otto	EE	74½	* † Chicago
Klarkowski, Alfred Edwin	Bus	2½	* † Waukegan
Klawkoske, Anthony Joseph	EE (SS)	31½	* † Urbana
Kleder, George Madison, Jr.	Bus	96½	* † Marion, Indiana
Klein, Bernard David	EE		* † Chicago
Klein, Gordon	CE	132	* † Urbana
Klein, John Alfred	Agr	31½	* † Blue Island
Klein, Roselia Ruth	HEAgr		* † Chicago
Klenze, Delmar Charles Henry	Accy	70½	* † Chicago
Kline, Laurence Everette	Bus	68	* † Chicago
Klinkberg, William Joseph	ME	70½	* † Spring Valley
Klontz, Mrs. Augusta	SS	8	* † Urbana
Klossner, Virgil Eugene	Bus		* † Enid, Oklahoma
Klotzsche, Eunice Esther	HELAS (SS)	59½	* † Cornell
Klowden, Benjamin Morris	CE	60½	* † Chicago
Klutas, John Edward	Bus	23	* † Sterling
Klute, Roy Harvey	Bus		* † Chester
Knapheide, Merle Douglas	MedP	62	* † Quincy
Knapp, Arthur Rosell	AC		* † Spriansburg, Pennsylvania
Knapp, Clair Webb	Bus	31	* † Champaign
Knapp, Helen Ely	HELAS	32	* † Mendon
Knapp, Joseph Grant	Bus		* † Greeley, Colorado
Knapp, Vernon	Bus	47½	* † Ashton

Knaauer, Harley Lillard	ChE	66½	* † DuQuoin
Knauss, Richard Henry	Bus	61	* † Peoria
Kneer, Greta Lucille	HELAS	32	* † Laura
Kneier, Charles Mayard	LawP	73½	* † Keyesport
Knight, Galen Victor, B.S., 1920	Law	36½	* † Urbana
Knight, Hubert Willard	EE	74	* † Somonauk
Knight, John Richard	Bus	27	* † Eganston
Knipp, Pauline Louise	SS	76	* † Urbana
Knisepp, Helen Mildred	HELAS (SS)	6	* † Kansas City, Missouri
Knoepfel, Charles Frederick, Jr.	CE		* † Chicago
Knollin, Ernesto Roy, A.B., 1914	Ath irr	19	* † Hayward, California
Knopf, Leonard Henry	LAS	37	* † Maywood
Knox, Henry Joy	Bus		* † Muskogee, Oklahoma
Knudson, Albert Henry	SS	9	* † Coeur d'Alene, Idaho
Knuth, Ray Jacob	Arch		* † Peoria
Koch, Elmer Cornelius	Bus (SS)	61	* † Alton
Koch, Everett William	Agr	33	* † Warsaw
Koch, Florence Guthrie	Mus	10	* † Urbana
Koch, Helen Durand	LAS		* † Alton
Koch, Lorin Chester	Agr		* † Urbana
Koch, Richard Frederick	Bus		* † Chicago
Koch, William Mortimer	Agr	31	* † Urbana
Kocour, Cyril Joseph	ChE	60	* † Chicago
Koehler, Edwin Robert	CE	33	* † Chicago
Koehler, Elmer George	MedP		* † Chicago
Koehler, Oscar Henry	EE	106½	* † Chicago
Koehne, Peery Patterson	Bus	29	* † Chicago
Koenig, Russel Otto	LG	46½	* † Bremen, Indiana
Koepke, Frank Henry Paul	ME (SS)	151½	* † Chicago
Koerfer, Paul Edward	EE	35½	* † Aurora
Koerner, Luella May	HELAS	32	* † Freeport
Koerner, Theodore George, Jr.	Bus	71½	* † Park Ridge
Kohl, Aurelia Rose	LAS	30	* † Belleville
Kohl, Frederick Andrew	Bus	16	* † Venice
Kohl, Leona Josepha	Mus		* † Belleville
Kohl, Otto Albert	SS	6½	* † Lisbon, Iowa
Kohler, Clarence Edward	Bus	96½	* † DeKalb
Kohlhagen, Grace Emily	LAS		* † Frankfort
Kohlhagen, Olive Elizabeth	LAS		* † Frankfort
Kohn, Stella Melita	LAS	85½	* † Chicago
Kohn, Walter Clarence Albert	Bus	83½	* † Chicago
Kohner, Edwin Martin	Bus	114	* † Chicago
Koho, Forrest Burks	Accy		* † Vermilion
Kohout, Jerre	Flor	23	* † Chicago
Kolben, Henry, Jr.	ME	35	* † Chicago
Kolhatkar, Murlidhar Digambar	EE	7	* † Warāha, India
Kolls, Raymond Constantine	Accy		* † Harvard
Kolmer, Albert Conrad	Agr	99	* † Waterloo
Kolmer, Oliver Ernst	Agr	33	* † Waterloo
Konold, William Saints	Bus	8	* † Warren, Ohio
Koons, Josephine	LAS		* † Danville
Koos, Harold George	Bus	31	* † Grand Mound, Iowa
Kopp, William Kenneth	Bus	120	* † Chicago
Koppke, Abraham Louis	IndA	43½	* † Champaign
Korpinen, Lauri Ilmari	EE	48½	* † Abo, Finland
Korsgaard, Viggo Irwin	Arch		* † Dwight
Kosvich, David	Arch		* † Chicago
Koukalik, Charles	Voc vsþ (SS)	19	* † Chicago
Koupal, Elsa Emily	LAS	62	* † Crown Point, Indiana
Koupal, Helen Marie	LAS	61	* † Crown Point, Indiana
Kovacsy, William George	ME	35	* † Hammond, Indiana
Kraeger, Alice Edwardine	LAS		* † Pekin
Kraft, Anna Lorraine	LAS	88	* † Bloomington
Kral, Albert Alva, Jr.	EE	112	* † Chicago
Kral, Emma Carolyn	LAS		* † Oak Park
Kramer, Max William	Law	79	* † East St. Louis
Kramer, Mollie	LAS		* † Chicago
Krametbauer, Sylvia Theresa	LAS		* † Chicago
Krael, Dorothy Mary	HELAS		* † Urbana
Krause, Elmer George	EE	69½	* † Belleville
Krauskopf, Sherry Bowen	Jnl	44	* † Maywood
Krauthorn, William Charles	SS	65	* † Granite City
Kreer, John George, Jr.	EE		* † Chicago
Krekler, William Henry	LG	28	* † Clinton, Indiana
Kreistein, Bernard Sydney	Law	52	* † Chicago
Kremer, Jeanette Geraldine	Bus		* † Oak Park
Kremer, Richard Henry	SS	7	* † Webster Groves, Missouri
Krenz, Edgar John Carl	EE	16½	* † Chicago
Krenz, Mathilde Hannah	Bus	32	* † Chicago
Kress, William Edward	Bus		* † Springfield
Kretschmer, Clarence Martin	Bus	73½	* † Chicago
Krieg, Arthur Walter	AE	17½	* † Riverside
Kries, Elden Lawrence	Accy		* † Grayville
Kripner, Joseph	SS	8½	* † Urbana
Krishna, Pallemapati Gopala	Agr		* † Secunderabad, India
Kroehler, Delmar Leroy	Bus		* † Naperville

Kriesen, Kenneth Penn	Bat				
Kroe, Carlisle George	SS				
Krone, Max Thomas	MetP				
Kronsch, Granville Horde	Bat		36		Chicago
Krowa, Paul Martin	Art				New Britain, Connecticut
Krueger, Clifford William	Bat		32		Chicago
Krueger, David Eugene	EE		32		Chicago
Krueger, Gerald August	Art		38		Chicago
Krueger, Howard Andrew	IndA		67		Chicago
Krueger, Paul Frederick	Art		91		Chicago
Kruger, Irvin Bachemheimer	Bat 19		37		Chicago
Krumm, Raymond George	EE		1		Chicago
Krumm, Alfred Brian	LAS		57		Chicago
Krupka, Edward Charles	Bat		34		Chicago
Krupka, George Frank	Bat SS		98		Chicago
Kruse, Charles Edward	Art		35		Chicago
Kruse, Lucille Marion	LAS				Chicago
Kruse, Waldemar Carl, Jr.	Loup SS		25		Chicago
Kruse, Max Joseph	SS		6		Chicago
Kusarek, Chester Stephen	ME		57		Chicago
Ku, Mei Chun	IndA				Chicago
Kuebler, Genevieve Fay	LAS SS		11		Chicago
Kuehl, Edwin Elmer	CE		70		Chicago
Kuehn, Carl William	Chem		73		Chicago
Kuehnow, Rockwood August	ME				Chicago
Kugler, Martha, A.B. 1920	SS		134		Chicago
Kugler, Ruth	Chem		32		Chicago
Kuhns, Viola Marguerite	HELAS				Chicago
Kuhl, George Harris	IndA		29		Chicago
Kuhl, Melvin Henry	ME		22		Chicago
Kuhle, Orlando Augustus	Loup		34		Chicago
Kukuk, Harold Darion	Bat		33		Chicago
Kuller, John Walter	Chem				Chicago
Kumler, John Matthew	Art		98		Chicago
Kuns, Laurene Ada	LAS				Chicago
Kuntz, Frances Bernina	LAS		77		Chicago
Kuntz, Henry Laurence	EE				Chicago
Kuo, Tsung Pan	SS		5		Chicago
Kuo, Yu Pin	Art (SS)		1		Chicago
Kupperman, Bernard	Chem 19		62		Chicago
Kurita, Saul Albert	Bat				Chicago
Kusermann, Edward William	Voc 197 SS		10		Chicago
Kusner, Carl Gustaf	ME		41		Chicago
Kwong, Frederick Gunning	EE SS		44		Chicago
Kyer, Roy Jay	SS		98		Chicago
Laati, Charles James	Bat 19				Chicago
Laati, George Anson	LAS		77		Chicago
Laati, William John	Bat				Chicago
Laase, Fred Henry	Art				Chicago
Laason, Alfred Henry	Loup		31		Chicago
Laikonen, Agnes Louie	LAS				Chicago
Lakens, Clara Rebecca	SS		7		Chicago
Lakey, Alice Caroline	LAS				Chicago
Lakey, Kenneth Leo	Arch				Chicago
Lakeland, Robert Evans	EE		109		Chicago
Lary, Reginald Ross	MinE		35		Chicago
Ladd, Dwight John	MetP		29		Chicago
Ladock, Charles Cannady	LAS				Chicago
Lafferty, George Gustavus	SS		104		Chicago
Lafferty, Thomas Wheeler	Art SS		78		Chicago
Lafuze, Donald Pranger	Loup		31		Chicago
Lager, Eric Willard	ME		118		Chicago
Lahn, Samhonnath	RA SS		115		Chicago
Lai, Lien	ME				Chicago
Laible, Beryl Vivan	HEAT		33		Chicago
Lake, Mary Florence	LAS				Chicago
Lake, Virgil Henry	Voc 197				Chicago
Lake, William Paul	IndA		8		Chicago
Lambert, Katherine Mary	SS		29		Chicago
Lambert, Kenneth Douglas	CE		67		Chicago
Lambert, Robert Wayne	Art		35		Chicago
Lambert, Mrs. Emmer Elizabeth	HELAS SS		87		Chicago
Lambert, Mar	LAS		34		Chicago
Lampert, Andrew Sibus	MetP SS		99		Chicago
Lancaster, Samuel Pommerer	ME				Chicago
Land, Clyde Est	Art		21		Chicago
Land, Logan	IndA		143		Chicago
Landfield, Joseph David	Arch				Chicago
Landing, Lewis Theodore	EE				Chicago
Lands, William Spencer	Bat		75		Chicago
Lane, Charles Howard	Loup				Chicago
Lane, Harold Coy	ME				Chicago
Lane, Harold Harrison	LAS				Chicago
Lane, Edwin Earl	Art				Chicago
Lane, Frederick William	Bat				Chicago
Lang, Thomas Steven	Bat				Chicago



Lang, Walter Edward	IndA	102½	* † St. Louis, Missouri
Langen, Edward Augustine	ME		* † Collinsville
Langston, Ellen Terry	LAS		* † Chicago
Lansford, Wallace Monroe	CE		* † St. Paul
Lansford, William Isham	EE		* † St. Peter
Lantz, Maurine Estelle	HELAS	106½	* † Congerville
Lantz, Mildred	LAS		* † Congerville
Lappin, Marion Cecil	SS	6½	* † Marion
Lappin, Paul Brook	Ind sp		* † Bedford, Indiana
Larimer, Floyd Conway	Bus	103½	* † Oklabee, Iowa
Laron, Mrs. Blanche, A.B., 1916	Mus irr		* † Urbana
Larry, Etta	HEAgr	54	* † Champaign
Larry, Roy Nicholas	Agr	24½	* † Champaign
Larsen, Harold Theodore	CE esp (SS)	26½	* † New London, Connecticut
Larsen, Thyge Otto	CE	73	* † Chicago
Larsen, Valdemar Charles	Agr		* † Oak Park
Larson, Arthur Clarence	EE	57	* † River Forest
Larson, Carl Edward	SS	10	* † Kankakee
Larson, Etta Lillian	Bus		* † DeKalb
Larson, George Edwin	C&L		* † River Forest
Larson, Gladys Madge	LAS	30	* † Princeton
Larson, Harold Efraim	ME	19½	* † Chicago
Larson, Reinhold Fridtjof	ME	35	* † Geneva
Larson, Roy Frederick	ME		* † Chicago
Lascelles, John William	SS	7	* † Capron
Lash, Clarence Roy	Atr	76½	* † Big Rock
Lasher, Robert Warren	Bus		* † Elgin
Lassers, Benjamin Morris	Bus		* † Chicago
Latham, Hollis Culver	Bus	57	* † Sandwich
Latham, Ora Florence	SS	16	* † Shawmon
Latham, Wendell Abbott	Bus	54	* † Sandwich
Lathrop, John Sherman	CerE (SS)	107	* † Chicago
Latowsky, Carl Rodo	ForC	61½	* † Highland
Laughlin, Mona	LAS		* † Kansas City, Missouri
Latta, James Bulew	CE	4	* † Washington, D. C.
Latta, Maurice Cooper, Jr.	CE		* † Washington, D. C.
Lau, Tak Ming	SS	31½	* † Chicago
Laube, Otto Theodore	EE	113	* † Chicago
Laughlin, Susie Belle	LAS	16	* † Tiffin, Indiana
Lauterback, Walter Wesley	Ed	97	* † Bathurst
Laval, William Lawrence	SS		* † Basking, South Carolina
Law, Clifford Julian	ME	2½	* † Springfield
Law, John Carl	EE		* † Carleton
Law, Rhene Berwyn	Atr	32	* † Souders
Lawder, John Francis	Mus	3	* † Champaign
Lawler, Joseph Patrick	CE	22	* † Miller, South Dakota
Lawrence, Mrs. Georgiana Brinkerhoff	SS		* † Rock Island
Lawrence, Helen Adelaide	CCS	57	* † Chicago
Lawrence, Henry Franklin	SS		* † Cameron, Missouri
Lawrence, James Rollin	Ind	62½	* † Champaign
Lawrence, Leland LaMont	LAS (SS)	103	* † Champaign
Lawrence, Norbert Edward	Bus	102	* † Denver, Colorado
Lawrence, Thomas Maurice	Bus	30½	* † Springfield
Lawrence, Wasson Watts	ME		* † Fairfield
Lawson, Burnis Carl	Agr	126	* † Springfield
Lawson, Ruth	HELAS (SS)	58½	* † Hinsdale
Lay, William Henry	Bus		* † Maize, Arkansas
Laykin, Jacob	Agr	52½	* † Kansas City, Missouri
Lazier, Harold Elmer	Agr	37	* † Rochelle
Lazier, Wilbur Arthur	Chem	62½	* † Rochelle
Lea, George Dewey	IndA	36½	* † Tipton
Leach, Edgar Shelby	LAS		* † Mt. Carmel
Leach, Iule Garrier	MedP		* † Chicago
Leach, Paul Howard	LAS	70½	* † Joliet
Learning, Jeremiah Cropsey	C&E		* † Highland Park
Lean, Everett G	SS	2½	* † Davenport, Wisconsin
Leary, William Andrew	Agr	70	* † El Paso
Leavin, Maurice	SS	91½	* † Chicago
LeBosquet, Maurice Jr.	MSE	71½	* † Chicago
Lebowich, Eugene Douglas	Bus	66½	* † Oregon
Lederer, Edwin Rudolph	Bus		* † Bloomington
Ledford, Nell	SS		* † Harrisburg
Ledford, Roy Meri	MedP	32	* † Harrisburg
Lee, Alfred Erwin	Agr	57½	* † Champaign
Lee, Clarence Lloyd	LAS	4	* † Champaign
Lee, Florence	HELAS	100½	* † Raymond
Lee, George Dewey	Voc sp (SS)	2	* † Carlinville
Lee, Hsuan Chuan	Bank		* † Tientsin, China
Lee, Jack	Bus (SS)	62	* † Portland, Oregon
Lee, John Proctor	Agr	78½	* † Paris
Lee, Kian Gie	ME	57½	* † Fayette, Iowa
Lee, Poy Kwun	CE	109	* † Kwangsi, China
Lee, Seymour Rowland	MedP	47½	* † Howard, South Dakota
Lee, Sherman Quentin	CerE	30	* † West Chicago
Lee, William Homer	Bus	22	* † Harrisburg
Leeds, Lerner	Voc sp		* † Mt. Carmel

Leeds, Winston Bryan	Jnl	71	* †	Mt. Carmel
Leeming, James Whitney	REE	116½	* †	Chicago
Leeming, Mason Starring	EE	77	* †	Chicago
Leete, Marion Elaine	SS	141½	* †	Chicago
deLeeuw, Abraham	ChE	33	* †	Chicago
deLeeuw, Philip Moritz	ChE	33	* †	Chicago
Leggate, Leora Lillian	HEAgr	33	* †	Chatsworth
Lehky, Sylvan Charles	Bus		* †	Algonquin
Lehman, Arthur William	Bus		* †	Bloomington
Lehman, Lloyd Wilber	Law	62½	* †	Herscher
Lehmann, Fred Gustav, Jr.	ChE	69½	* †	Chicago
Lehow, Lucian K	EE		* †	St. Louis, Missouri
von Lehsten, Arnold	Law	5½	* †	St. Louis, Missouri
Leibsohn, Adele Ethel	LAS	15	* †	Chicago
Leigh, Oliver Wendell Holmes	Agr	30	* †	Spartan
Leighton, Harold Hauke	Bus		* †	Chicago
LeMaster, Oscar Lloyd	Law sp	32	* †	West Frankfort
Le May, Leona	Ed	60	* †	Olney
Lemenager, Earl Henry	LawP (SS)	81½	* †	Champaign
Lemenager, William Arthur	Bank	51½	* †	Champaign
Lemos, Salvador Alsina	Agr	5	* †	Pelotos R. Gr. do Sol, Brazil
Lenane, Edward Hugh	ME	64½	* †	Quincy
Lenhart, Elizabeth Catherine	LAS		* †	Terre Haute, Indiana
Lennon, John Edward	AE	8	* †	Sioux City, Iowa
Lennox, George	ME	30½	* †	Marshalltown, Iowa
Lentr, John Cyrus	Bus		* †	Milford, Indiana
deLeon, Ricardo Dominador	ChE	52½	* †	Tarlac, P. I.
Leonard, Charles Pierson	LAS	83	* †	Boonton, New Jersey
Leonard, Edward Charles	SS		* †	Greensboro, N. C.
Leonard, Edward Patrick	Jnl	68	* †	LaGrange
Leonard, Rose Catherine	SS	8	* †	Bloomington
Leonard, Lois Ann	LAS		* †	Rantoul
Leslie, Mrs. Myra Henion	Mus	98½	* †	Urbana
Leslie, Frank M.	Mus sp		* †	Urbana
Leslie, Robert Thies	LAS		* †	Belleville
Lessing, Marion Rose	LAS	74½	* †	Urbana
Lessing, Otto	EE		* †	Urbana
LeSuer, Inez Ruth	LAS		* †	Zeigler
Lethen, Edward Frederick	Bus	32	* †	Chicago
Lettie, Arnold Maurice	Bus	35½	* †	Chicago
Leve, Bernard Hart	EE		* †	Chicago
Levenstein, Mose Abraham	Bus		* †	Greensburg, Indiana
Leverenz, Harold Theodore	CerE	34	* †	Danville
Levin, Charles	ME	37	* †	Chicago
Levin, Lewis Lazarus	Bus		* †	Chicago
Levin, Morris S.	Bus		* †	Monticello
Levy, Henry Kay	EE	89½	* †	Chicago
Levy, Jacob	Chem	8	* †	Bayonne, New Jersey
Levy, Katherine Henrietta	Bus		* †	Chicago
Levy, Samuel Albert	Ath	34	* †	Bayonne, New Jersey
Levystein, Alan Lebell	ChE		* †	Chicago
LeWald, Curtis Crain	LAS		* †	Chicago
Lewis, Alden George	Chem		* †	Chicago
Lewis, Ardenia Moree	HEAgr	113	* †	Green Bay, Wisconsin
Lewis, Charles Bennett	Agr		* †	Camp Point
Lewis, Dana Mendall	Agr	41	* †	Camp Point
Lewis, Eileen Amanda	SS	3	* †	Potomac
Lewis, Ethel Marguerite	LAS		* †	Chicago
Lewis, Floyd LeRoy	SS	5½	* †	Muskegon, Michigan
Lewis, Franklin Spencer	Jnl	36	* †	Chicago
Lewis, Fred Ray	SS	7½	* †	Muskegon, Michigan
Lewis, George Harris	MedP		* †	Madison
Lewis, Harold Wilcox	Bus	74	* †	Quincy
Lewis, Henrietta Pauline	LAS		* †	Stone Fort
Lewis, Homer ReMonde	CE	30	* †	Chicago
Lewis, James Mandell	ME	69½	* †	Wheaton
Lewis, Kenneth S.	MedP	96½	* †	Wheaton
Lewis, Leslie Lisle	LAS	8	* †	Lafayette, Indiana
Lewis, Mabel Rebecca	SS	23½	* †	Brooklyn
Lewis, Mrs. Madge Rush	Mus	89	* †	Urbana
Lewis, Marion Amanda	HELAS		* †	Chicago
Lewis, Martha Estine	LAS	41½	* †	Des Moines, Iowa
Lewis, Mary Louise	LAS	41½	* †	Des Moines, Iowa
Lewis, Preston	Agr	18	* †	Stillman Valley
Lewis, Raymond Oliver	ME	22	* †	Springfield
Lewis, Reagon Wilson	Bus		* †	Indianapolis, Indiana
Lewis, Sumner Pay	Bus	28	* †	LaGrange
Lewis, Thomas Elwood	CE	12	* †	Kokomo, Indiana
Lewis, Walden Sharp	CE	31	* †	Sandwich
Lewitan, Leo	SS	158½	* †	Chicago
Li, Hsiang Kai,	ME	82½	* †	Honan, China
Li, Sheo Hen	ChE		* †	Kiangsi, China
Li, Tsu Chung	Bank		* †	Chekiang, China
Libuano, Jose Bautista	RCE (SS)	27	* †	Malolos, Philippine Islands
Lichtmann, Samuel Arthur	AE	120	* †	Chicago
Lidschin, Max Milton	IndA	49	* †	Chicago

Lieb, Samuel Ben	ChE	71	* † Chicago
Liederman, Sidney Edward	Eus		† St. Louis, Missouri
Lierle, William Russell	MedP		* † Quincy
Lifuendahl, Harold Eric	Bus		* † Chicago
Light, Mildred Elizabeth	LAS	47½	* † Leaf River
Lightring, Lydia Lester	SS	8	* † Winnetka
Liller, Ruth Margaret	SS	25	* † Anna
Lillie, Harvey LeRoy	RME	54	* † Dubuque, Iowa
Lin, Kuan Hua	Bank	48½	† Mukden, China
Lincicome, Luna Belle	Bus		* † Urbana
Lindberg, Lawrence John Vernon	Chem		* † Chicago
Lindberg, Thora Helen	SHHEd (SS)	7	* † De Kalb
Lindblom, Leonard Hamilton	ME		* † Chicago
Linde, Gerald Herman	IndA		* † Moline
Lindemann, Herbert William	Bus		* † Chicago
Linden, Russell Walfred	Ath	95½	* † Muskegon, Michigan
Lindley, Bertrand Hallowell	MinE	111½	* † Vicksburg, Mississippi
Lindley, James Ralph	EE	72½	* † Marshall
Lindley, Mary	HELAS	32	* † Hulsonville
Lindley, William Price	LAS		* † Sullivan, Indiana
Lindquist, Carolyn	Chem	33	* † Chicago
Lindquist, Rubert John	Accy	32	* † Sycamore
Lindsay, James Douglas	ME		* † LaSalle
Lindsay, Virginia	LAS		* † Onarga
Lindsey, Adrian Herve	IndA	83	* † Bryan, Ohio
Lindstrom, Wallace Nelson	CE		† Chicago
Ling, Feng Chi	ME	179	† Washington, D. C.
Ling, Hung Ung	LAS		† Fukien, China
Ling, Shu Mong	Bus		† Hunan, China
Lingle, Myron Kendall	CE	3	* † Decatur
Link, Anton Hulman	Bus	9	* † Paris
Link, Louis John	CE	6½	* † Chicago
Link, Walter Christ	EE		* † Chicago
Linke, Madge	HELAS (SS)	64½	* † Seymour
Linn, Arnold John	Bus		* † Roberts
Linnard, Clarence Kenneth	Agr	36	* † Peatone
Linnard, Lawrence Gilbert	Agr		* † Peatone
Lino, Frank Dominic	CE	50	* † Chicago
Lino, William Brishane	Voc vs p		* † Aurora
Lindstrum, Vina Dorothea	LAS	12	* † Assumption
Lipcaman, Edna Fern	SS	4½	* † Perry
Lipe, Cora Zenobia	SS	7½	* † Willt
Lippman, Hugh Samuel	ME		* † Dayton, Ohio
Lipton, Isadore	LAS sp		* † Chicago
Liscom, William Martin	Accy	8	* † Beardstown
Littig, Mary Dolores	SS	8	* † Rock Island
Little, Elmer Phelps	Mus	65	* † Champaign
Little, Mrs. Julia Florence Bush	Mus	29½	* † Champaign
Little, Mary Ninas	LAS	64	* † Kansas City, Missouri
Littleford, Warren Ernest	Agr	18	* † Downers Grove
Littler, Sarah Frances	Mus		* † Pendleton, Indiana
Littman, Edwin Robert	ChE	53	* † St. Louis, Missouri
Littmann, Raymond Edgar	Bus (SS)	34	* † St. Louis, Missouri
Littrell, Raymond Manuel	ME	28	* † Dawson, New Mexico
Litz, Leo Meredith	Jnl	8	* † Indianapolis, Indiana
Liu, Chin Chang	Bank		* † Peking, China
Liu, Sidney Szui	RA		* † Nanking City, China
Livermore, Ogden	ChE	64½	* † Evanston
Livesay, Durnand Paul	ME		* † East St. Louis
Livingood, Harry Harrison	SS		* † Comins, Kansas
Llewellyn, Rossiter Summy	Bus	62	* † LaGrange
Lloyd, James T	SS		* † West Point, Mississippi
Lo, King Shin	ChE		* † Canton, China
Lochard, George Morris	EE		* † Huntington, West Virginia
Locke, Sam Pelide	EE	59	* † Mexico, Missouri
Lockhart, Paul H	Agr	28	* † Palestine
Lockwood, William Frederick	IndA	119	* † Kankakee
Loehr, Hazel Coughtrey	LAS	32	* † Oak Park
Loekle, Otto John	Agr		* † Peru
Lofquist, Gerald Albert	ME	119½	* † Chicago
Logan, Charles Harold	Bus		* † Decatur
Logan, Francis William	MedP	38½	* † Joliet
Logan, John	Bus		* † Chicago
Logie, Jane Merritt	LAS		* † Wilmette
Logsdon, Amy Louise	SS	22	* † Rushville
Lome, Sophia Carman	LAS	28½	* † Chicago
Long, Charles David	Agr	35	* † Beardstown
Long, Chester Vernon	AE	29	* † Quincy
Long, Eugene Byron	Bus		* † Rossville
Long, Gladys Nora	LAS	30	* † Watseka
Long, Harry Maxwell	SS	9½	* † Middletown
Long, Harvey Lawrence	LAS	60	* † Mt. Morris
Long, Noah Glynne	Agr	33	* † Watseka
Long, Ruth Ida	SS	139	* † Watseka
Longbons, Belle	Mus (SS)	66½	* † Urbana
Longbons, Elizabeth	LAS	62½	* † Urbana

Longenotti, La Carie	Bus	67	* † St. Louis, Missouri
Longfellow, Harold Russell	EE		* † Anderson, Indiana
Longman, Reba Etta	HELAS	60	* † Lacon
Loomis, Frances Louise	LAS	32	* † Mattoon
Loomis, Oliver King	Agr	69½	* † Mokenda
Loomis, Walter Earl	Agr	93	* † Mokenda
Looney, Ursula Mary	Law	30	* † Chomo, New Mexico
Lopes, Enio Terra	Agr sp		* † New York, New York
Lorance, Luther Mohler	Med P	56	* † Robinson
Lorber, Max Jack	ForC		* † Columbia City, Indiana
Lord, Philip Shumway	Bus	99½	* † Evanston
Lorenzen, Mildred Kathryn	LAS		* † Chicago
Losee, Isabelle Martha	LAS	95½	* † Chicago
Lotz, Meyran Alfred	ChE	38	* † Chicago
Lou, Chi Tin	ME	63	* † Changsha, China
Loucks, Paris William	AE		* † Hillsboro
Louden, Robert Hadley	ChE		* † Collinsville
Louiso, Ruth Cora	LAS	14	* † Anderson, Indiana
Lourash, Percy David	Agr (SS)	97½	* † Champaign
Love, Frank Armen	Agr	41	* † Naperville
Love, John Joseph	EE	62	* † Newton
Love, Willard Lawrence	EE	36	* † Carterville
Lovejoy, Neva Irene	LAS		* † Rantoul
Loveless, Alexander Watt Thomson	ChE	8	* † Indianapolis, Indiana
Loveless, Georgia Emma	HEAgr	29	* † Carlinville
Lovell, Clarence B	ChE	133	* † Libertyville
Lovell, Marie Elsie	LAS	56	* † Kaneville
Lovett, Robert Fillmore	LAS	96½	* † Champaign
Lowern, Joseph Edgar, Jr.	Bus		* † Okeechobee, Florida
Low, Margaret Loraine	HELAS	41	* † Mounds
Lowe, Burton James	IndA	29	* † Keokuk
Lowe, Lucy	Mus	59	* † Urbana
Lowes, Helen Hall	Agr	93½	* † Chicago
Lowes, Mary Elizabeth	Jnl	65½	* † Chicago
Lowrance, Roy E	CerE (SS)	117½	* † Robinson
Lowry, Paul James	Bus	27	* † Champaign
Lubelsky, Samuel Sidney	Mine		* † Chicago
Lucas, Gladys Irene	LAS		* † East St. Louis
Luckey, George Alonzo	Bus		* † Farmington
Ludeman, Catherine Marie	LAS	54½	* † LaSalle
Ludeman, Ruby C	LAS	8	* † LaSalle
Ludlow, Bert Wayne	Bus		* † Oklahoma City, Oklahoma
Luer, Harry Arthur	Agr (SS)	113½	* † Alton
Luhrsen, Alice Wray	Bus		* † Chicago
Lull, Julian Richard	ME	102½	* † Evanston
Lum, Chung Yan	Bus	27	* † Canton, China
Lumley, Arlene, A.B., 1919	Mus irr	133½	* † Urbana
Lumley, Dorothy Elizabeth	LAS	109½	* † Urbana
Lummis, Joseph Gray	Accy	98½	* † Quincy
Lumpo, Janice Mary	Mus	24	* † Decatur
Lumsden, Harold A	Bus		* † Urbana
Lund, Harold	Arch		* † Chicago
Lund, Helen Dorothea	Bus		* † Chicago
Lundheck, Orel Rudolph	ME	85½	* † Oak Park
Lundeen, Edgar Emmanuel	Arch	51	* † Bloomington
Lundy, Gladys Evelyn	HEAgr	65	* † Champaign
Lurie, David Robert	Bus		* † Chicago Heights
Lurie, Harold Hiram	Chem	47½	* † Chicago
Luther, Harry Halton	SS	121½	* † Urbana
Luther, Ida Louise	LAS sp	11½	* † Champaign
Lutwens, Leslie Wayne	Bus	32	* † Tampico
Lutz, Carl Walter	Accy (SS)	53½	* † Evansville, Indiana
Lutz, Jack Christian	Bus		* † Gardner
Lycan, William Hiram	LAS		* † Vermilion
Lyddon, Bert	IndA	65	* † Rockford
Lyerla, Ava Juanita	LAS	42	* † Irving, Montana
Lyle, Allene	Jnl	49½	* † Chicago
Lyman, Armond Ferris	Bus		* † Oak Park
Lyman, Bernard Anthony	Bus	87	* † Champaign
Lynch, Earl Walter	Agr		* † Attica, Indiana
Lynch, Helen Charlotte	Bus	124	* † Mattoon
Lynch, John George	ME		* † Chicago
Lynch, John Joseph	CE		* † Maywood
Lynd, Joseph Merle	IndA	60	* † Springfield
Lynde, Herbert Bargis	EE	52	* † Chicago
Lyndon, Dudley Knox	LAS (SS)	17	* † Chicago
Lynn, Ardis Lenore	Jnl	32	* † Byron
Lynn, Gebird B	Voc esp	21	* † Ashland
Lynn, Chester Vernon	CE	41	* † Decatur
Lynn, Stuart Wellington	ME (SS)	60½	* † Chicago
Lyons, Ernest Lee	RME (SS)	57½	* † Urbana
Lyons, George Woode	EE	49½	* † Chicago
Lytle, Florence May	Bus (SS)	67½	* † Urbana
Lytle, Laura Holman	LAS	106½	* † Byron
Lytle, Manta Marie	LAS sp	100½	* † White Hall
Lytle, Merwyn Quincy	Bus	93½	* † Quincy

McAdow, Helen Elizabeth	LAS		* † Chicago
McAfoos, Roy Earl	Agr	25½	* † Ewing
McAllister, James Russell	Agr (SS)	36½	* † Waterman
McAnulty, James Terry	REE		* † Springfield
McBrian, Charles Christopher	LawP	43½	* † Mt. Vernon
McBroom, Ethel	SS	6	* † Woodstock
MacBroom, Irene Mae	LAS		* † Champaign
McCabe, James Russel	MSE (SS)	79	* † Des Moines, Iowa
McCabe, Marie Belle	Ed (SS)	97½	* † Urbana
McCabe, Orville Paul	LG	32½	* † Brook, Indiana
McCaleb, Charles Albert	LawP		* † Havana, Cuba
McCallister, Flavia Oliff	LAS	99	* † Paris
McCann, Franklin Adams	Chem (SS)	66	* † Quincy
McCann, Thomas Edward	Ath	40	* † Waukegan
McCarthy, Cecelia Mary, A.B., 1920	SS	130	* † Champaign
McCarthy, Charles Francis	CE		* † Chicago
McCarthy, Cornelius George	Arch	37	* † Des Moines, Iowa
McCarthy, Turner Day	Bus	33	* † Chicago
McCaskill, Illinois	HELAS (SS)	70½	* † Champaign
McCaskill, Virginia	HELAS	16	* † Timewell
McCaskill, Yolande	HELAS (SS)	29	* † Champaign
McCaughtry, Ruth Corinne, A.B., 1912	Lib	33	* † Carthage, Missouri
McClain, Mary Ellen	LAS sp		* † Rome, Georgia
McClay, Arthur Thomas	Agr sp		* † Hillview
McClellan, Robert Bruce	Agr		* † Chicago
McClelland, Adele Burton	Bus	94½	* † Clinton
McClelland, Harold Alexander	ME		* † Clinton
McClelland, Harriet Newell	LAS	30	* † Oak Park
McClelland, Ralph Lester	IndA (SS)	89½	* † Chicago
McClure, Cecil Francis	Agr		* † Oxford, Indiana
McClure, Clyde Emmons	Bus		* † Gibson City
McClure, Earl Leroy	EE	108½	* † Van Wert, Ohio
McClure, Mildred Helen	Bus		* † Van Wert, Ohio
McClure, Olive Jane	HEAgr sp		* † Gibson City
McClure, Paul	Bus	50½	* † Urbana
McClure, Standleigh Myron, B.S., 1914	SS	5	* † Urbana
McCollum, Virgil Eli	Agr		* † Lincoln Center, Kansas
McCohn, Eugene Miller	ChE	68½	* † Pontiac
McComis, John James	LAS	28	* † Venice
McComis, Lucille Thompson	LAS		* † Venice
McConogha, William Albert	SS	5	* † New Concord, Ohio
McConnell, Abram Bodine	Agr	25	* † Woodstock
McConnell, Dorothy Jane	LAS	33	* † Champaign
McConnell, Genevra Deischer	HELAS	19	* † Danville
McConnell, Hadassah Harriet	SS	7	* † Alexis
McConnell, James Holton	CE	71½	* † Lincoln
McConville, Elizabeth Augusta	SS	9	* † Nauvoo
McCord, Leslie Ira	Bus	54½	* † Blue Island
McCord, Lois Hall	LAS	72	* † Oxford, Indiana
McCormack, Ned Hume	IndA	39	* † LaSalle
McCormick, Bruce	CE		* † Terre Haute, Indiana
McCormick, Carl C.	SS	9½	* † Vermont
McCormick, Donald Dean	LawP		* † Emden
McCormick, John Lynn	LAS sp	25½	* † Delavan
McCormick, Kenneth Tilton	ChE	78½	* † Milwaukee, Wisconsin
McCormick, Mildred Elizabeth	LAS		* † Delavan
McCormick, Robert Elliott	LAS		* † Peoria
McCormick, Robert Sudduth	FOM	64	* † Normal
McCormick, Seth Theodore	ME	13	* † Waterloo, Iowa
MacCorquodale, Donald William	ChE	33	* † Chicago
McCown, Charles Bruce	MinE		* † St. Louis, Missouri
McCoy, Glen Archie	LAS		* † Centralia
McCoy, Harry Allan	LAS		* † Wichita, Kansas
McCracken, Glenn Wesley	LG	7	* † Amboy
McCullough, Donald William	Bus		* † Chicago
McCullough, Mrs. Ethel Spurgin	SS		* † Terre Haute, Indiana
McCullough, Harold Taylor	SS	6½	* † Westport, Indiana
McCullough, James Richard	Bus		* † Urbana
McCune, Howard Allen	Arch		* † Wichita, Kansas
McCune, Thornton Calvert	Bus	11	* † Chicago
McCurdy, Harry Henry	Ath	49	* † Marseilles
McCutcheon, Philip	ChE		* † Alexis
McDaniel, Lee Roy	MedP	28	* † Martinsville
McDaniel, Paul Howard	MedP		* † Martinsville
McDavid, Josephine Ethel P.	LAS	34½	* † Litchfield
McDermet, Virginia Sarelda	SS		* † Abingdon
McDermott, Agnes Theresa	LAS sp		* † Champaign
McDermott, Francis O'Neill	Bus	34	* † Crescent City
McDermott, Margaret C.	Mus		* † Champaign
McDevitt, Harold Willard	Agr		* † Jacksonville
MacDonald, Bettie	LAS	65	* † Chicago
MacDonald, Carol Russell	ME	66½	* † Arthur
MacDonald, Earl George	ChE	63½	* † Chicago
MacDonald, Edgar Joseph	AE	103½	* † Chicago
MacDonald, James Joseph	EE	69	* † Clinton, Indiana
McDonnell, John Boniface	LAS	39	* † Champaign

McDonough, Edward Joseph	Bus		* † Peoria
McDougle, Ella Moore	LG	65½	* † Humboldt
McDougle, Ethel Lucille	LAS	30	* † Urbana
McDowell, Clarence Merle	ME	36	* † Cedar, Iowa
McDowell, Clarence Norman	LAS	32	* † Robinson
McDowell, Merritt Dewey	Bus	95	* † Centralia
McEachran, Curtis Daniel	Bus		* † Rockford
McEldowney, Homer Irving	Bus	64½	* † Chicago Heights
McElfresh, Paul Cliff	Bus	53¾	* † Westfield
McElroy, George Harold	Bus		* † Avenza
McElvain, Carl Roswell	Bus	2	* † Auburn
McElvain, Ralph Carswell	Bus	2	* † Auburn
McElvee, Charles Thomas, Jr.	LawP		* † Peoria
McEwen, Cecil Roy	RME	88	* † McComb, Mississippi
McFadden, Belle Lorraine, A.B., 1897	SS		* † Champaign
McFarland, Charles Lee	Agr	57½	* † West Chicago
McFarland, Frank Jay	Accy	24	* † West Chicago
McFarland, Wilfred Myers	Law	30	* † Vincennes, Indiana
McGaughey, George Samuel	LawP	17	* † Staunton
McGaw, Albert Gordon	SS	3	* † Wooster, Ohio
McGawn, Alice Gertrude	HEAgr sp		* † Three Oaks, Michigan
McGehee, Mahala	Mus (SS)	8	* † Urbana
McGehee, Wilbur	LG	109½	* † Urbana
McGill, Maurice Taylor	Agr	31	* † Watseka
MacGillivray, John Henry	Agr	107	* † Urbana
McGinnis, Donald Castle	Bus	71	* † Aurora
McGinnis, Gordon Fiske	LAS	54½	* † Aurora
McGrath, Catherine Sedulia	LAS		* † Springfield
McGrath, Edna Mary	LAS	29	* † Freeport
McGrath, Irving Thomas	ME		* † Chicago
McGrath, Lawrence Philip	ForC	95	* † Woosung
McGrath, Patrick Martin	Voc rsp (SS)		* † Chicago
McGrath, Thomas Wilson, B.S., 1918	SS	135½	* † Champaign
McGraw, Hazel Elizabeth	Bus		* † Gary, Indiana
McGready, Mrs. Lou Dunsdon	SS		* † Jerseyville
McGregor, Charles Duncan	Bus	95	* † Oskaloosa, Iowa
MacGregor, Helen Margaret	LAS		* † Rockford
McGregor, James Rollin	Bus		* † Oskaloosa, Iowa
McGuire, Eugene Clifford	ME		* † Anderson, Indiana
McGuire, Vereta	SS		* † Champaign
McHose, Joseph Chancy	Bus		* † Griggsville
McIlvain, Leta	Bus	32	* † Champaign
McIlvaine, Elizabeth	LAS	56½	* † Peoria
McInnes, Sterling Joseph	Agr	43	* † Sidney
McIntire, Mary M	SS	½	* † Urbana
MacIntyre, Elbridge Albert	MedP		* † Mendota
McIntyre, Robson Duncan	RA (SS)	102	* † Wilmington
McKamy, James Andrew	Bus	60	* † Mattoon
McKeen, Meta Ge Nette	Mus	25	* † Morris
McKeever, Thomas	Bus	63½	* † Chicago
McKenna, Philip Joseph, Jr.	Agr sp	35	* † Chicago
McKeown, Thomas Shanks	LAS	38½	* † Chicago
McKibben, Raymond William	Voc rsp		* † Albion
McKinney, Ira A	Mus sp		* † Urbana
McKinney, John Keryl	Bus	95½	* † Clinton
McKinley, Lura	SS	16	* † Indianapolis, Indiana
McKinistry, Elizabeth Bennett	LAS	67	* † Grant Park
McKinzie, Lee	Voc rsp	16	* † Norris City
McKittrick, Hattie Hzael	LAS		* † Chicago
McKnight, Clark Wilson	Bank	67½	* † Mason City
McKnight, Dorothy Virginia	LAS		* † Collinsville
McKown, Lisle William	Agr		* † Raymond
McKown, Willa Pauline	LAS	30½	* † Monica
McLain, William Douglas	IndA	66	* † Springfield
McLane, Margaret Esther	LAS		* † Chicago
McLaren, Edward Eugene	Ins		* † Chicago
McLaren, Joe Peters	Bus	24	* † Marion
McLarty, Alfred Dewey	Law	33½	* † Harvey
McLean, Alice Edna	HELAS		* † Jewell City, Kansas
McLean, Jack Fhnn	LAS sp	36	* † Oak Park
McLeish, Orlyn Oliver	LAS (SS)	113¾	* † Rockford
MacLennan, George John	Bus		* † Springfield
McLeod, Marion Christene	LAS	61	* † Madison, South Dakota
McManus, William Albert	Agr		* † Chicago
MacMaster, Archibald Kenneth	IndA	62½	* † Chicago
MacMillan, David	SS	7½	* † Urbana
McMillan, Ethel Mae	SHHEEd	92	* † Macomb
McMillan, Foster Lamont	MedP		* † Marissa
McMillan, John Charles, Jr.	MedP	32	* † New Berlin
McMillan, Louis William	Agr (SS)	96½	* † Macomb
McMillan, Paul Edgar	LG	9	* † Sparta
McMillan, Samuel William	SS	7½	* † Waunder, Texas
McMillan, Wylie Milfred	EE	35	* † Sparta
MacMillen, James Willard	MinE		* † Grayslake
McMunn, Richard Lacey	Agr	38	* † Neoga
McMurray, Arthur Alexander	Agr (SS)	22½	* † Vina, Alabama

McMurray, Hayward Thomas	Agr	65	* † Divernon
McMurray, Mattie Mae	HEAgr		* † Vina, Alabama
McNair, Helen Willard	LAS (SS)	110½	* † Louisville, Kentucky
McNeill, Jordan Reese	Agr (SS)	36	* † Spur, Texas
McNeill, Lois Adele	HELAS sp		* † Champaign
MacNeill, Minard Sessions	Bus		* † Chicago
McQueen, William Maynard	Bus		* † Normal
McQuerrey, John Howard	SS		* † Adrian, Missouri
McQuinn, Ralph Tolivar	Jul	104½	* † Salem
McQuiston, Margaret Elizabeth	LAS	21	* † Paxton
McShea, Gladys Eleanor, A.B., 1920	SS	130	* † Owaneco
McTaggart, Clarence Glenn	Arch	56	* † Pana
McTaggart, Clinton Kenneth	Bus		* † Pana
McVay, Esther Lee	LAS	97½	* † Barry
McVey, Garland	Agr		* † Roseville
Ma, Hsi Chiao	LAS		* † Kwangsi, China
Mabie, Eleanor	LAS		* † Evanston
Macdonald, James Wear	ME	69½	* † Evanston
Mace, Layard Ronaldson	Bus	50½	* † Bloomington
Mach, George Robert	Bus (SS)	102	* † Brookfield
Machamer, Jerome Ellis	MinE (SS)	116	* † Wheelton
Machay, George Gordon	CE		* † Addison, New York
Macleod, Martha Lucile	LAS		* † Granite City
Madden, William Dillon James	SS		* † Cincinnati, Ohio
Maddox, Nottley Sinclair	LAS	61	* † Clayton
Madsen, Howard	Voc esp (SS)	17	* † Clifton
Madsen, Kai Marits Ore	ME (SS)	12	* † Milwaukee, Wisconsin
Magid, Hyman Singer	CerE	32	* † Chicago
Magnuson, Dell Martin Enoch	Chem (SS)	98½	* † Chicago
Magnuson, Raymond Alfred	Bus	29½	* † Chicago
Magnussen, Henry George	CE		* † Chicago
Mahon, William Francis	ME		* † Rockford
Mahannah, Edward Wayne	Voc esp	13	* † Dwight
Mahmood, Syed	MinE	60	* † Patna, India
Mahoney, Dewey James	LawP		* † Mounds
Mahurin, Melville Judson	SS		* † Ft. Wayne, Indiana
Mai, Florence	LAS		* † Chicago
Main, Howard H	CE	112	* † Rockford
Main, Owen James	Bus	9	* † Casey
Mair, Clarke Fletcher	Arch		* † Chicago
Mair, George Nathan	CE	59½	* † Chicago
Majeski, Arthur Edwin	CE	28	* † Chicago
Major, Charles Frederick	Agr		* † Champaign
Major, Mary Katherine	LAS	18	* † Hillsboro
Makeever, Harry Donald	Arch		* † Davenport, Iowa
Makeever, Jean	HELAS		* † Marseilles
Makeever, Olive Irene	HELAS	32	* † Marseilles
Makepeace, Frank George	Agr	69	* † Kansas City, Missouri
Malapert, Ernest Louis, B.S., 1920	SS	132	* † Osage City, Kansas
Malcolmson, David Krause, B.S., 1920	LAS irr	148	* † Urbana
Malcolmson, Robert Joseph	REE	71½	* † Urbana
Malecki, John Daniel	ChE	116½	* † Oak Park
Malkmus, William	Accy	105½	* † Kansas City, Missouri
Mallers, Charles Eaton	LAS		* † Chicago
Mallers, Edward Benjamin	LAS	57½	* † Chicago
Mallers, John B	LAS	122½	* † Champaign
Malone, Dayle G	ME	67½	* † Palmyra
Malsbury, Cecile Ione	HELAS		* † Virden
Mandel, Arthur	Agr	24½	* † Chicago
Mandeville, Merten Joseph	Bus	125½	* † Terre Haute, Indiana
Manemann, Frank Carl	voc esp (SS)	11½	* † East Dubuque
Manion, Peter Patrick	MinE	3	* † St. Louis, Missouri
Manley, John Charles	EE	120½	* † Chicago
Mann, Clair Tambllyn	Agr	98½	* † Manteno
Mann, Earl Maurice	Bus		* † Shumway
Mann, Harold McKinley	LawP		* † Danville
Mann, John Collins	Law	30	* † Latham
Mann, John Ellis	EE		* † Metropolis
Mann, Mary Fidelia	HELAS	80½	* † Sullivan, Indiana
Mann, Maurice Edward	RA	34	* † Elgin
Mann, Shirley, B.S., 1920	SS	134½	* † Kankakee
Mannfield, Chester Adam	EE	35½	* † Indianapolis, Indiana
Manning, George Alfred	Accy		* † Paris
Manny, William Lincoln	ME	69½	* † Urbana
Mansfield, Russell	IndA	70	* † Chicago
Manuel, Thomas Brown	Agr esp	14	* † Greencastle, Indiana
Mapes, Lester Ryan	SS		* † Ferris
Maramba, Concepcion Garcia	HEAgr	75½	* † Pangasinan, P. I.
Maramba, Felix Daniel Felipe	Agr	99½	* † Pangasinan, P. I.
Marbold, Charlotte Riche	LAS	33	* † Greenview
Marbold, Helen	LAS	16	* † Greenview
Marciniak, Jerome Benedict	ChE	35	* † Chicago
Marcy, John Porter	CE	12	* † Kansas City, Missouri
Margrave, William Bagby	ChE	59	* † Thebes
Marion, Thelma Elizabeth	LAS		* † Louisiana, Missouri
Markert, Frederick Schaefer	ME		* † East St. Louis

Markhus, Carl Johnson	SS	4	Yorkville
Markman, Paul	MinE	34	* † Murphysboro
Markuson, Raymond Carl	IndA	19	* † Batavia
Marlowe, Katharine	HELAS (SS)	22	* † Urbana
Marlowe, Wilma McCabe	Chem (SS)	99	* † Chicago
Maroe, Luella May	SS	28½	* † Rushville
Marquardt, John Walter	EE	70½	* † Urbana
Marquedant, Isabel Mildred	Agr	85½	* † Grass Lake, Michigan
Marquis, Donald Edgar	Arch	135½	* † Bloomington
Marr, Richard Searl	Agr	33	* † Oak Park
Marron, Leo Lyons	EE		* † Rock Island
Marshall, Glenn Wylie	Bus	112	* † Rutland
Marshall, John Roseman	AE	45½	* † Sheffield
Marshall, Lowell Vincent Scheidecker	Agr	33	* † Serena
Marshall, Morris De Bruler	LAS	38	* † Gibson City
Marshall, Thomas	Bus	41	* † Bernardston, Massachusetts
Marshall, Thomas Holland	Law		* † Fairfield
Marshall, Thomas John	Arch	17	* † Granite City
Marshall, William Forman	Agr	64½	* † Belknap
Marten, Jane Frances, A.B., A.M., 1916, 1918	SS		Tolono
Martin, Alfred, Jr.	MedP		* † St. Louis, Missouri
Martin, Ava Eugenia	HELAS	66½	* † Odin
Martin, Charles C	Agr	25	* † Auburn
Martin, Charles Leslie	AE	35	* † Harrisburg
Martin, Duane Leslie	LawP		* † Quincy
Martin, Everett Kirby	Bus	63	* † Oak Park
Martin, Howard C	LAS	100½	* † Grinnell, Iowa
Martin, Joseph Wilson	EE	8	* † Marion
Martin, Latmere Earl	Aer		* † White Hall
Martin, Lloyd Clifford	Bus		* † Urbana
Martin, Lyman Eugene	ChE		* † Robinson
Martin, Milford Maurice	CE (SS)	95	* † Champaign
Martin, Raymond Woodsworth	EE		* † Parsons, Kansas
Martin, Russell Read	LAS	26½	* † Mound City
Martin, Ruth Lucille	LAS	65	* † Milford
Martin, Samuel Loveridge	Bus		* † Waseka
Martin, Willard Lasher	Agr	33	* † Morrison
Martin, William Hugh	Law	58	* † Cache
Martino, James Frank	Bus	99½	* † Dallas, Texas
Martins, Djalina Varella	LAS (SS)	119½	* † Sao Paulo, Braz
Martinson, Ernest Leslie	CE	25½	* † Paxton
Marvel, Gertrude Mary	LAS		* † Waynesville
Marvel, Sadie Marie	LAS	107	* † Waynesville
Marx, Elmer William	Arch	78½	* † Chicago
Marx, Henry Joseph Kuhs	IndA		* † St. Louis, Missouri
Marx, Wilton Reuben	LG	74½	* † Chicago
Mason, Clarence English	ME		* † Buda
Mason, David Howard	EE (SS)	92	* † Chicago
Mason, Earl Greenfield	IndA	97	* † Champaign
Mason, Edward William	MedP		* † Urbana
Mason, Gerald Russell	CE	25½	* † Wichita, Kansas
Mason, James Bryant	MedP (SS)	93½	* † Urbana
Mason, John Cyrus	MedP		* † Rossville
Mason, Rodney Starkweather	LAS	99½	* † Highland Park
Massey, Lloyd Calvin	Arch		* † Urbana
Masters, Lillian Downs Dolores	LAS		* † Chicago
Matheny, Arthur Rolla, B.S., 1920	SS	118½	* † Cave-in-Rock
Mather, Harold Shaeffer	Agr	26½	* † Brook, Indiana
Mathews, Alvin Gugeler	Bus	108	* † Danville, Iowa
Mathews, John Mohry	Law		* † Baltimore, Maryland
Mathews, Norman Edward	CE		* † Greenview
Mathias, Albert Ruggles	ChE		* † Chicago
Mathias, Henry Ruggles	ChE	35	* † Chicago
Matlock, Robert Lavern	Agr	33	* † Yorkville
Matsuda, Sensuske	Agr	121	* † Yamagushipen, Japan
Matthew, Helen	HEAgr	66	* † Anderson, Indiana
Matthews, Bernita Jewell	LAS		* † Canton
Matthews, Wallace Bruce	ME	122	* † Fulton, Missouri
Matthys, Clifford James	LG	45	* † Van Wert, Ohio
Mattson, George Waldemar	ME		* † Ishpeming, Michigan
Mattson, Raymond Adolph	Arch		* † Chicago
Maurg, Tharrawaddy	ChE	124	* † Rangoon, Burma
Maurer, Charles Brand	SS	63½	* † Champaign
Mautz, Rose Irene	LAS		* † Shelbyville
Maxcy, John Wesley	SS	6½	Morrill, Kansas
Maxfield, Elizabeth Allmond	SS	107½	Palmyra
Maxfield, Frank Hiram	Agr		* † Tampico
Maxfield, John Ashbury	SS	27	Palmyra
Maxson, Raymond Dewey	EE	106	* † Rochelle
Maxwell, Douglas Irving	ChE (SS)	124½	* † Myra, Texas
Maxwell, Martha Adelle	LAS		* † Washington, Iowa
Maxwell, Rolland Edward	Agr		* † Urbana
Mav, Lorna Gertrude Wallbrook	LAS		* † Chicago
Mav, Olin Edgar	AE	68½	* † Newton
Mav, Truman Ward	Jnt		† Windsor



Mayberry, Myers Matkin	ME	153½	* † Farmington, Missouri
Mayhew, Harry Amos	LAS		* † Champaign
Mayhue, Donald Waters	EE	114	* † Palestine
Maynard, Elsdon Lyman	Bus	107½	* † Chicago
Maynard, Stephen Baker, Jr.	Bus	2½	* † Chicago
Mayne, Joseph Ford	CE (SS)	34	* † Little Rock, Arkansas
Mazurkiewicz, Joseph	AE		* † Spring Valley
Mead, Harry Judson	Bus	2	* † Aurora
Meade, Rolland James	Bus		* † Virginia
Meador, John Gibbs	Bus	4	* † Houston, Texas
Meals, Charles Franklin	Jnl		* † Peoria
Mearns, Jack Greene	MedP	36	* † Kalamazoo, Michigan
Medberry, William Keith	LAS	8	* † Huron, South Dakota
Meder, Everett Stanley	AE	88	* † Joliet
Mee, Julian Edward	Ath	85½	* † Chicago
Meece, Loren Everest	LAS		* † Pierson
Meek, Herschel Dee	LAS		* † Parma, Missouri
Meeks, Arthur Fay	LawP	47½	* † Macon, Mississippi
Meeks, Rosamond Effie	Bus	37½	* † Chicago
Mefford, Joseph Isaac	Agr		* † Robinson
Megchelsen, Paul Gerard	ChE	37	* † Keokuk, Iowa
Megel, George Dewey	Bus	39	* † St. Louis, Missouri
Megowen, Carl Robert	Bank	105	* † Alton
Meier, Henry John	ME	74	* † Crete
Meier, Mary Catharine	HEAgr		* † Urbana
Meier, William Karl	Agr	66	* † Urbana
Meis, Leo Jarlath	Agr	58½	* † Pontiac
Meisenbach, Eloise Tunie	SS	7½	* † Pearl
Meisenbach, Hilda Kathryn	SS	7	* † Pearl
Melchior, Alvin Carl	Bus	29	* † Chicago
Melin, Florence Lucile	Jnl	30	* † Chicago
Melin, George Cornelius	Bus		* † Galesburg
Melms, Donald Fred	Bus		* † Hampshire
Melton, Clarence Robert	EE	39½	* † Mason City
Melton, Eva Lenore	CCS	8	* † English, Indiana
Meltzer, Hyman	Chem	107½	* † Bayonne, New Jersey
Melzer, Evalyn Virginia	LAS		* † Belvidere
Memmen, Marguerite	LAS		* † Omaha, Nebraska
Menaker, Arnold	ChE	68	* † Chicago
Mendelson, Robert	LAS	2	* † Chicago
Mendenhall, Marjorie	LAS	91½	* † Detroit, Michigan
Mendenhall, Richard Abram	EE	44	* † Evanston
Mendoza, Simplicio Sanchez	Bank		* † Pongasman, P. I.
Mengden, Walter Henry	CerE		* † Chicago
Mercer, Clifford Chester	Ath		* † Vermont
Mercer, Frederick Olen	LawP	30	* † Vermont
Meredith, Calvin Mateer	Agr	32	* † Byron
Meriwether, Shannon	Arch	111	* † Sedalia, Missouri
Merker, Dorothy	LAS		* † East St. Louis
Merrill, Clifford Charles	SS		* † Champaign
Merritt, James Francis	Bus	32	* † Berwyn
Merryman, George Thomas	LAS	36	* † Marshalltown, Iowa
Merryman, Mary Elinor	LAS (SS)	100½	* † Elizabethtown
Mersbach, Robert Herman	Bus	34	* † Chicago
Merz, Russell Albert	MinE	73	* † Omaha, Nebraska
Messer, Paul James	Bus	29½	* † Chicago
Messing, Frank William	AE	31	* † Cleveland, Missouri
Messinger, Earle Philip	ME	76	* † New Canaan, Connecticut
Messinger, Lester Hubert	ME ssp	33	* † New Canaan, Connecticut
Mette, Gertrude Emily	Arch	37	* † Eureka
Metterhausen, Frederick Brockmann	RCE	89	* † Chicago
Metz, Velma Marie	Bus	19½	* † Champaign
Metzger, Freda Elizabeth	LAS	33	* † Tower Hill
Mcwes, Frederic Theodore	CE (SS)	71½	* † Urbana
Meyer, Alfred Herman Ludwig	LAS	106	* † Venedy
Meyer, Claire Victoria	HELAS		* † Highland
Meyer, Clarence Charles	FOM	73	* † Chicago
Meyer, Clarence Herman	Chem	39½	* † Quincy
Meyer, Ella Kathleen	HELAS	24	* † Flora
Meyer, Fred Ernest	IndA	42	* † Forest Park
Meyer, Frederick Walter	LawP		* † Lexington
Meyer, George	Bus	33	* † Chicago
Meyer, George Leo Nicholas	ME	130½	* † Milwaukee, Wisconsin
Meyer, George William	C&L	35	* † St. Louis, Missouri
Meyer, Helen Florence	HELAS (SS)	55	* † Highland
Meyer, Helen Joan	LAS	26	* † Havana
Meyer, Henry Edward	CE		* † Chicago
Meyer, James Harold	ChE	69½	* † Louisville, Kentucky
Meyer, Roy Bicknell	Ins		* † Chicago
Meyer, Roy Edward	ME	34½	* † Peoria
Meyer, Ruth Anne	Jnl	58½	* † Peoria
Meyer, Ruth Matilda	LAS		* † Havana
Meyer, Walter Martin	Agr ssp		* † Placentia, California
Meyers, Mary Barbara	Jnl		* † Belvidere
Mezek, Frank William	CE (SS)	106	* † Chicago
Michael, Frank Lester	CerE		* † Peoria

Michael, Richard William	Agr	50	* † Champaign
Michael, Viola Mae	LAS		* † Urbana
Michael, William Conrad	EE		* † Elmhurst
Michael, William Manford, A.B., 1920	SS	138	* † Champaign
Michalek, John Clarke	Chem	27½	* † Chicago Heights
Miche, Irene Eleanor, A.B., 1920	SS	131	* † Urbana
Michels, Earl Peter	LawP	33	* † Aurora
Middlekauff, Margaret L	Law		* † Freeport
Middleton, Edward Elias	SS	74½	* † Chicago
Middleton, George Eugene	FOM	110½	* † Chicago Heights
Middleton, Jonathan E	LAS		* † Pontiac
Middleton, Wayne	CE	136	* † Victoria, Texas
Midkirk, Jewel Reuben	EE	28	* † Belvidere
Miers, Clayton Thomas	Arch		* † Decatur
Mighell, Albert Thomas	Agr	102½	* † Aurora
Miles, James Rufus	Agr		* † Urbana
Miles, Josephine Kingston, A.B., 1920	SS	131½	* † Urbana
Miles, Leon Rolffe	Agr	45½	* † Walnut
Miles, Lydia Clements	SS	7	* † Chicago
Miles, Margaret Leslie	LAS	84	* † LaGrange
Miles, Phyllis Mary Bruce	LAS		* † Urbana
Milholland, Helene Gould	SS		* † Oklahoma City, Okla.
Millar, Julian Zimmermann	EE	35	* † Charleston
Miller, Andrew Kley	LAS	33	* † Quincy
Miller, Ben	LawP	34	* † Passaic, New Jersey
Miller, Carl John	ChE		* † Danville
Miller, Cora Kathryn	LAS		* † Villa Grove
Miller, Del Gratia	LAS		* † Chicago
Miller, Dorothy Ashton	LAS	33	* † Ironwood, Michigan
Miller, Edward Eugene	MedP	28	* † Cairo
Miller, Elmer Franklin	EE	26	* † Granite City
Miller, Esther Linnea	SHAAgr	28	* † Winnebago
Miller, Garnet O'Bryan	Mus	29½	* † Champaign
Miller, George Ludwick	Ind.A	33½	* † Wilkinsburg, Pennsylvania
Miller, Harold Hammond	Agr		* † Champaign
Miller, Harry Small	ME	23	* † Aurora
Miller, Helen	HELAS	98	* † LaHarpe
Miller, Katherine Fay	LAS	67½	* † Centralia
Miller, Kenneth Alvin	CE		* † Kansas City, Missouri
Miller, Lawrence Byrne	ME	2½	* † Rockford
Miller, Lillian Dolores	LAS		* † Toledo
Miller, Louis Franklin	Arch		* † Washington, D. C.
Miller, Louis Joseph	CE	67½	* † Chicago
Miller, Mabel Verdilla	Lib sp		* † South Bend, Indiana
Miller, Marion Alice	HELAS	51	* † Shipman
Miller, Mary Elizabeth	Jnl		* † Oak Park
Miller, Mary Hazel	SS	3	* † Indianapolis
Miller, Maude Marie	HEAgr		* † St. Louis, Missouri
Miller, Mildred Eleanor	LAS		* † Galva
Miller, Myrtle Mae	LAS	63½	* † Centuria
Miller, Oliver David	Agr	67½	* † Princeton
Miller, Paul Carlisle	Agr	10½	* † Marshalltown, Iowa
Miller, Ralph Waller	Chem	31	* † Chicago
Miller, Mrs. Robert Barclay	SS	3½	* † Champaign
Miller, Stuart Eaton	CE		* † Chicago
Miller, William Charles	Bus	21½	* † Granite City
Miller, William John	Bus		* † Canton
Miller, William Joseph	Agr	81½	* † Jacksonville
Millhouse, Alma Elizabeth	SS		* † Galena
Milligan, David Austin	Agr		* † Shelbyville
Milligan, George William	CE	30	* † Harvard
Milligan, Robert Edward	ChE	66½	* † Denver, Colorado
Milliken, Walter Beale	MedP	66½	* † Little Rock, Arkansas
Mills, Abe	Agr	50½	* † Chicago
Mills, Gail A	Bank	8	* † Mooresville, Indiana
Mills, Herbert Stevens, Jr.	Bus		* † Oak Park
Mills, John Harold	Chem		* † Dayton, Ohio
Mills, Kenneth Entz	LAS	80½	* † Chillicothe
Mills, Pauline	Bus		* † Chicago
Mills, Victor Churchill	LAS	11	* † Warsaw
Millsom, Alfred Leroy	Bus	4	* † Macomb
Milner, George Ellsworth	Accy	104½	* † Plymouth
Milner, Reid Thompson	ChE	13	* † Chicago
Milton, Charles	LAS	61½	* † Urbana
Mine, Yoshiro, A.B., 1918	Arch irr		* † Nogahama, Japan
Miers, Verne Thomas	ME	40½	* † Rockford
Misner, Frederick Sylvester	EE	4	* † Highland, Kansas
Misner, Lee Hestlet	Agr (SS)	38	* † Champaign
Minteer, James Irwin	Bus		* † Maywood
Miranda, Octavilio	Chem	53½	* † Rio de Janeiro, Brazil
Mishkin, Herman Louis	MedP	35	* † Chicago
Missimer, Dale Johnson	ME (SS)	108½	* † Urbana
Missimer, Mrs. Dale Johnson	HEAgr (SS)	108	* † Urbana
Misman, Leva Elizabeth	LAS	33	* † Dixon
Mitchell, Alfred Joseph	CE	121	* † Monroe, Michigan
Mitnell, Augustus Hunt	Accy		* † West End

Mitchell, John Joseph	SS			Sioux City, Iowa
Mitchell, John Miln	Bus	110½	* †	Evansville, Indiana
Mitchell, Mamie Lillian	LAS	11½	* †	Danville
Mitchell, Metta May	LAS	32	* †	Lake Forest
Mitchell, Orvall Oran	Agr	2½	* †	Newton
Mitchell, Paul Martin	Law	32	* †	Wheaton
Mitchem, John Foster	LAS		* †	Harvard
Mittenbuler, Robert Lathrop	Bus	32	* †	Chicago
Mitsuyasu, Hideo	CerE		* †	Fukubka, Japan
Mittelbuscher, Edwin Henry	Arch		* †	Davenport, Iowa
Mittendorf, Bradley Christian	Agr sp	7	* †	Champaign
Mittendorf, Louis, Jr.	Bus sp		* †	Champaign
Moberley, Leah Helen	LAS sp		* †	Mattoon
Moburg, Ernest Rueben	Agr	92	* †	Monmouth
Mochon, Floyd Oliver	ChE		* †	Lead, South Dakota
Mock, Harold Jackson	CE	112½	* †	Gibson City
Moffet, Edna Vancil	LAS		* †	Urbana
Moffet, Everett	Bus	33	* †	Springfield
Moffet, John Franklin	Agr	29	* †	Ashmore
Moffet, Warren	Agr	41½	* †	Urbana
Moffet, William Theodore	EE	35	* †	Washington, D. C.
Moffett, Paul Gaylord	FOM	28	* †	Indianapolis, Indiana
Mogler, Walter Rudolph	AE	46	* †	Rock Island
Mohan, Edgar Hubert	LAS	67½	* †	Chicago
Mohn, Paul Leonard	ChE	33	* †	Jacksonville
Mohr, Albert William Terry	IndA (SS)	69	* †	Chicago
Mohr, Joseph Sutton	ME (SS)	108½	* †	Chicago
Mohr, Louis Edward	CE	36	* †	Chicago
Mohr, Truman Jack	MedP	39	* †	Van Wert, Ohio
Moises, Pedroza	RCE sp		* †	Tolima, Columbia
Moller, Robert Arthur	IndA	54	* †	Paducah, Kentucky
Mollman, Elmer Henry	ME	35	* †	East St. Louis
Molohon, Frank Lambert	EE	26½	* †	Divernon
Molz, Helen Cleopha	LAS		* †	Murphysboro
Moment, Asher	SS	137	* †	Chicago
Monahan, Mary Helen	LAS	30	* †	Kansas City, Missouri
Monahan, Irma Naomi, B.S., 1920	SS	132½	* †	Urbana
Monninger, Werner Hugo	Bus	96	* †	Indianapolis, Indiana
Monro, Donald Austin	ME	70	* †	Ft. Smith, Arkansas
Monsson, William Henry	ChE	56	* †	Chicago
Montgomery, Donald Benjamin	Bus		* †	Sioux City, Iowa
Montgomery, Emma Ethel	LAS sp		* †	Bloomington
Montgomery, Winifred, A.B., 1920	HEAgr irr	132½	* †	Marseilles
Monti, Donald	EE		* †	West Frankfort
Montzheimer, Arthur Mosher	ChE	90½	* †	Joliet
Moody, Paul Andrew	ME	73½	* †	Elgin
Mooney, Thaddeus Constantine	Bus	57	* †	Philo
Moore, Bernice Hawthorne	SS	6½	* †	Champaign
Moore, Clarence Mason	Agr	70½	* †	Danville
Moore, Dwight Leonard	Agr		* †	New Salem
Moore, Fred Willard	Agr	18	* †	Watauga
Moore, Frieda Mary	HELAS	73	* †	Harrisburg
Moore, Goodloe Edward	CE	27	* †	Danville
Moore, Helen	Mus	118½	* †	Champaign
Moore, Laura Anne	HEAgr		* †	Otterbein, Indiana
Moore, Leslie Wilber	Agr	18	* †	Otterbein, Indiana
Moore, Louis Vincent	Chem		* †	Whitins, Indiana
Moore, Margaret Jane	LAS		* †	Danville
Moore, Marion Joseph	Chem		* †	Benton
Moore, Nellie Anna	SS	54½	* †	Champaign
Moore, Perry Oliver	Agr		* †	Otterbein, Indiana
Moore, Robert Frank	CE	83	* †	Springfield, Missouri
Moore, Virginia Elizabeth	Agr	25	* †	Benton
Moore, William Hartwell	ME	28	* †	Kewanee
Moorman, Richard Harry	Arch ssp		* †	Chicago
Morales, Maximo Eladio	LAS (SS)	47	* †	Lima, Peru
More, Grace Van Dyke	Mus (SS)	47	* †	Urbana
Morehead, Carl Flanders	Bus	36	* †	Shelbyville
Morgan, Francis Dean	EE	110½	* †	Urbana
Morgan, George Newell	Flor	63	* †	Elgin
Morgan, Irving Bancroft	ChE	78½	* †	Buffalo, New York
Morgan, Iva Elizabeth	LAS	64	* †	Vienna
Morgan, Marjorie Muriel	LAS	25	* †	Peoria
Morgan, Muriel	LAS		* †	Granite City
Morgan, Norris Gould	Agr	16½	* †	Galva
Morgan, Robert Louis	MixE	36	* †	Humboldt
Morgan, Willard Amos	Agr	100	* †	Bone Gap
Morgan, William McLennon	ChE	100½	* †	Cincinnati, Ohio
Morris, C Ruth	Mus sp		* †	Oskosh, Wisconsin
Morris, Dorothy Elizabeth	HEAgr		* †	Urbana
Morris, Gladys Iona	ComT (SS)	34	* †	Georgetown
Morris, Lewis Vincent	Bus		* †	West Liberty, Iowa
Morris, Max Carleton	Bus	17½	* †	Rock Island
Morris, Mildred Ruth	Ed	38	* †	Urbana
Morris, Ollie Nathaniel	CE	29½	* †	St. Louis, Missouri
Morris, Pat Gingles	LAS	101	* †	Murray, Kentucky

Morris, Thomas Baker	CE		* † Marshall, Texas
Morris, Veva Leone	LAS	97	* † Bluford
Morrison, Clay Alexander	Agr	80	* † Muncie, Indiana
Morrison, Elmer Duncan	Agr		* † Peotone
Morrison, Helen Irvina	LAS		* † Muncie, Indiana
Morrison, Kent V	SS	7½	* † McKenzie, Tennessee
Morrison, Roy	SS	7½	* † McKenzie, Tennessee
Morrison, Robert Rees	Agr	26	* † Savoy
Morrison, Thomas Rominger	Bus	60%	* † Greensburg, Indiana
Morrow, Charles Edward	ME (SS)	69½	* † Champaign
Morrow, Edward Louis	Agr	2½	* † Allon
Mortenson, Florence Evelyn	LAS	33	* † Chicago
Morton, Roscoe William	ME	39	* † Downers Grove
Mosely, Addison Chester	ForC		* † Chicago
Moser, Rosalie Barbara	LAS	79½	* † Chicago
Moses, Dudley Bertie David	Agr		* † Johannesburg, South Africa
Moses, Horace Irving	Arch		* † Oak Park
Moss, Eugenia	LAS	94	* † Mt. Vernon
Moss, John Redmon	Agr	105	* † Paris
Moten, Frederick Eugene	Agr	41	* † Chicago
Motley, Ralph Edward	Bus		* † Richmond, Indiana
Motschman, John Albert	Bus sp		* † Chicago
Mott, John Harcourt	LAS	53½	* † Rockford
Mott, Richard Merritt	ME	37	* † Rockford
Mottar, Roland Francis	LAS	32	* † Springfield
Motter, Henry Edward	Bus (SS)	117	* † Lake Worth, Florida
Mottier, John Albert	Agr	43	* † El Campo, Texas
Moulden, Clara Berenice	Bus (SS)	96½	* † Tuscola
Moulton, Carl Edward	Agr		* † White Hall
Mount, Robert Merl	ForC	23½	* † Chicago Heights
Mountz, John Jacob	ME		* † Decatur
Mowery, Ralph Edward	Accy	35	* † Ullin
Mowery, William Byron	LAS	105	* † Danville
Moyer, Clema Grace	LAS	69½	* † Mattoon
Mozley, Virginia Frances	HEAgr		* † Johnston City
Muchmore, Ethel Eugenia	HEAgr	30	* † Oblong
Muchmore, Mabel Valeria	HEAgr	30	* † Oblong
Mudge, Morris	Bus	44	* † Peru
Mueller, Alfred Martin	EE	109	* † Wilmett
Mueller, Fred William	ME	25	* † Chicago
Mueller, Margaret Wilhelmine	LAS		* † Tower Hill
Mueller, Paul Louis	Bus	34	* † St. Louis, Missouri
Mueller, Russell Arthur	EE sp(SS)	46	* † Belleville
Mueller, Thomas Edward	ME	21½	* † Oak Park
Mueller, Walter Alfred	AE	81½	* † Chicago
Mugge, George Hudson	Bus	97½	* † Harrisburg
Muhs, Elmer Alfred	LG	98	* † Blue Island
Mukerjee, Khitinath	MedP		* † Calcutta, India
Mulberry, Minnie Lorena	Bus (SS)	62	* † East St. Louis
Mullen, Joseph Thomas	LAS		* † Champaign
Mullen, Leo Francis	ME	49	* † Parkersburg, West Virginia
Mullen, Vern Elmo	Ath		* † Taylorville
Muller, Floyd Minch	Agr	27	* † Washington
Mulliner, Harold Almon	Bus		* † Galesburg
Mullins, Anna Marie	HELAS		* † Champaign
Mullins, James Thomas	AE	4½	* † Champaign
Mulnix, Emory Schriver	LAS	94½	* † Lena
Mumford, Dwight Curtis	Agr	35	* † Urbana
Muncie, John Dwight	LAS	27½	* † Olney
Muncie, Wendell Stanley	ChE	93	* † Olney
Mund, Elizabeth Marie	LAS		* † Sutter
Mundorf, Wilbert Winter	Bus		* † Marshall
Mundy, Charles Alvy	LAS	60	* † Chicago
Mundy, Otto Seraphin	CerE	36	* † Huntington, Indiana
Munker, Winifred Grace	Jnl (SS)	88	* † Spokane, Washington
Munroe, Helen Lydia	LAS	32	* † River Forest
Munsell, Amel Truman	Bank	97	* † Henryetta, Oklahoma
Munsell, Roy Clifton	Bus	26	* † Henryetta, Oklahoma
Munson, Mary Elizabeth	SS	5½	* † Springfield
Munsterman, Francis Aloysius	Law sp		* † Jerseyville
Murch, Edith Jessie	LG	32	* † St. Louis, Missouri
Murch, Mildred	LAS	35	* † St. Louis, Missouri
Murdoch, Gordon	SS	4	* † Champaign
Murdoch, Robert Emerson	ME		* † Washington, Indiana
Murphy, Florence Victoria	LAS	32	* † Tuscola
Murphy, Arthur Roman	ChE	80	* † Milwaukee, Wisconsin
Murphy, Bert Kenneth	Bus	85	* † Stockton
Murphy, Charles Hubert	Bus	2½	* † Urbana, Ohio
Murphy, Charles Jerome	ME	29	* † Indianapolis, Indiana
Murphy, Daniel Cornelius, Jr.	ME	35	* † Rock Island
Murphy, Edwin Brookfield	LawP		* † Sterling
Murphy, Harold Joseph	IndA	38½	* † Aurora
Murphy, Harvey Clyde	C&L	47½	* † Harrisburg
Murphy, Hazel Eva	HELAS	62½	* † Harrisburg
Murphy, James Francis	Agr	28½	* † Lovington
Murphy, Lawrence Webster	Agr	31	* † Canton

Murphy, Marjorie De Blanche	LAS		* Western Springs
Murphy, Mildred Travis	LAS	61½	* † Waukega
Murphy, William Delmer	Agr		* † Bement
Murray, Adam Royal	Agr		* † Arrowsmith
Murray, Clarence Robert	ME irr	2½	* † Menominee, Michigan
Murray, Donald Bruce	Bus	60½	* † Springfield, Massachusetts
Murray, Erle Francis	Bus	35	* † Champaign
Murray, Frank Stanislaus	CE		* † Evanston
Murray, Gladys Eloise	LAS	95	* † Elgin
Murray, John Ross	CE	36	* † Harvard
Murray, Kathryn Rene	HEAgr	60	* † Chicago
Murray, Louise Clare	LAS	26	* † DeKalb
Murray, Martha Lucy	SS	15	* † Centralia
Murray, Ralph Walter	EE	35	* † Stockton
Murray, Rowland Hill	Bus	34½	* † Chicago
Murray, Samuel Walter	Accy	38	* † Menominee, Michigan
Murray, Steele	Voc vsp		* † Joliet
Murray, William Moore	Bus	52½	* † Springfield
Murry, Willard Joseph	Agr	2½	* † Batavia
Musfeldt, Rhoda Maria	LAS	31	* † Rock Island
Musni, Delfin Tuazon	RCE	15½	* † Rizal, Philippine Islands
Mussett, Ralph Shelton	SS	11	* † Grayville
Musmann, Lydia Katherine	HEAgr	34	* † Grant Park
Musson, Arthur Stowell	IndA	35	* † Moline
Mustafa, Syed	EE	57	* † Patna, India
Myers, Edwin Lowell	Ed	70	* † Chicago
Myers, Fern Bernice	HELAS	31	* † Bloomington
Myers, Frances Helen	Bus	40	* † Champaign
Myers, Franklin Rudolf	LAS	49½	* † Berwyn
Myers, Grover Ecord	Agr	35	* † Essex, Missouri
Myers, Harold Bain	Bus	58	* † Decatur
Myers, Harold Henry	LawP	51	* † Oregon
Myers, Harold Noyes	Agr	106	* † Mendon
Myers, Kenneth Hayes	Agr	64	* † Mendon
Myler, William Edward	Bus (SS)	7½	* † Detroit, Michigan
Mysch, Herbert Paul	Bus		* † Bensenville
Naef, Robert William	AE	35	* † Whiting, Indiana
Naegele, Frederick Harold	Arch	23	* † Indianapolis, Indiana
Nagel, Frederic Emil, Jr.	Bus		* † LaGrange
Nagel, Gertrude Elizabeth	LAS	32	* † Chicago
Nagle, Perry Ira	ME	68½	* † Chicago Heights
Nagle, Sybil Kathryn	LAS sp	4	* † Urbana
Naidu, Pagadala Narasinule Ethirajulu	Chem	24½	* † Bangalore, India
Nangle, Wilfred Owen	EE	29	* † Oak Park
Naramore, Milton Orlando, Jr.	EE	75	* † Evanston
Nardi, Julian	ME	89½	* † Chicago
Nasatir, Julius	Chem	53½	* † Los Angeles, California
Nash, Herbert Thomas	MedP		* † Chicago
Nash, Justin Russel	ChE	32	* † Belvidere
Natho, Karl Rufus	Agr (SS)	104½	* † Danville
Nations, Leroy J	LAS	60	* † Shawnee, Oklahoma
Naughton, David Augustus	Arch sp (SS)	4	* † Champaign
Naughton, Frank Usher, Jr.	Agr	67½	* † Champaign
Nauman, Graydon Church	Bus		* † Waterloo, Iowa
Nay, Bernard Everett	ChE		* † Marshall
Nay, John Willard	RA	78	* † Chicago
Naylor, Dorothy Virginia	LAS		* † Chicago
Naylor, Ralph Edmund	CE	121½	* † Chicago
Neagle, Richard John	LAS		* † Kewanee
Neason, Jeremiah Baba	MedP		* † Cedar Rapids, Iowa
Neathery, Verna Esta	HEAgr		* † Greenville
Neave, Sidney Lionel	LAS sp		* † Victoria, Canada
Needham, Alfred Allen	Agr	66½	* † Rockford
Needham, Grace Alice	LAS		* † Urbana
Needler, Elizabeth Gertrude	HELAS		* † Chicago
Needler, Lowell Quiggle	Bus	63	* † Chicago
Negley, Scott Robertson	EE	63½	* † Farmington
Neill, Walter	AE	45	* † West Terre Haute, Indiana
Neiswanger, Samuel Owen	CerE		* † Oskaloosa, Iowa
Neiswanger, Wandaline Elizabeth	LAS	64½	* † Washington, Iowa
Nelms, William Chandler	C&L	26	* † Springfield
Nelson, Arelisle Marie	LAS	15	* † Champaign
Nelson, Arthur Edwin	ME (SS)	76½	* † Springfield
Nelson, Charlotte Augusta	Bus	56½	* † Urbana
Nelson, Dale Avery	Law		* † Donoran
Nelson, Earl Loyal	EE	68½	* † Rockford
Nelson, Enar Wellington	AE		* † Winnetka
Nelson, Ernest Alfred	CE	50	* † Chicago
Nelson, Franklin Christian	Agr	35½	* † Clifton
Nelson, George Thomas	LAS		* † Chicago
Nelson, Gilbert	SS	60½	* † Chicago
Nelson, Gordon Vernon	CE	8	* † Paynesville, Minnesota
Nelson, Gustave Ferdinand	LAS	36	* † Chicago
Nelson, John	AE	112½	* † LaGrange
Nelson, John Merritt	LAS (SS)	29	* † Chicago
Nelson, John Walter	Bus ssp	24	* † Wilmette

Nelson, Joseph Arvin	AE	62	* † Chicago
Nelson, Leonard Nels	Chem	44	* † East Moline
Nelson, Louis Melvin	IndA	102½	* † Evanston
Nelson, Martin Edward	LAS	31½	* † Chicago
Nelson, Maud Irene	LAS		* † Chicago
Nelson, Maurice Walter	Bus		* † Chicago
Nelson, Maynard Louis	Bus		* † Chicago
Nelson, Raymond Carl	Agr		* † DeKalb
Nelson, Ruben Otto	CE	31	* † Berwyn
Nelson, Wallace Alan	ForC		* † South Bend, Indiana
Nelson, Wendell Phillips	EE	106½	* † Champaign
Nelson, Wilbert Kenneth	IndA	8½	* † Chicago
Nemutz, Emil Charles	ChE	54½	* † Chicago
Nemoyer, Jason Wallace	MSE	43½	* † Champaign
Nendick, Carra Ruth	Bus	7½	* † Conway, Iowa
Neri, Rocque	MedP		* † Urbana
Neshitt, Estella Elizabeth	HELAS	34	* † New Richmond, Indiana
Neshitt, Herbert Franklin	Agr		* † Indianapolis
Neshitt, Kenneth Alexander	CerE		* † Pinckneyville
Neshitt, Pearl Judith	LAS		* † Indianapolis
Netcott, Victor A	AE	8	* † Waterloo, Iowa
Neth, Frank Arthur	Bus		* † Piqua, Ohio
Neth, John Hubert	IndA	91	* † Eaton, Ohio
Neubauer, Jacob George	EE		* † Champaign
Neuber, Anna Louise	HELAS (SS) irr	77	* † Litchfield
Neuenschwander, Milo Hugo, B.M., 1920	LAS (SS) irr	171½	* † Berne, Indiana
Neuman, Irma Helen	Bus		* † Chicago
Neumann, Robert Louis	Bus	36½	* † Kokomo, Indiana
Neureuther, Carl Anton	ME	65½	* † Peru
Neville, Cleda Blanche	LAS		* † Pinckneyville
Neville, Harry Clay	Agr	31	* † Pinckneyville
Newbold, Allyn Davis	ME	41	* † Joliet
Newby, Mayben Proctor	Bus	64	* † Kansas City, Missouri
Newcomb, Edward Charles	Arch	46¾	* † LaCrosse, Wisconsin
Newcomb, Edwin Eldwood	Arch	137	* † Burlington, Kansas
Newcomer, Emerson Royer	LAS		* † Petersburg
Newcomer, Hale Lloyd	LAS		* † Mason City, Iowa
Newell, Horace Mead	Agr		* † Kirkwood, Missouri
Newell, Josephine, A.B., 1919	SS	131½	* † Urbana
Newell, Roger Sherman	LAS (SS)	66½	* † Urbana
Newenham, Raymond Lincoln	SS	40½	* † Hersman
Newkirk, Nelle Andrus	HELAS		* † Mt. Carmel
Newman, Albert Hardy	CE		* † Chicago
Newman, Clarence William	LAS	53½	* † Hart, Michigan
Newman, Ella Marguerita	SS	66½	* † Jacksonville
Newman, George Thomas	SS	8½	* † Pittsburgh, Pennsylvania
Newman, Harriett Grace	SS	16	* † Urbana
Newman, Howard Eugene	Bus	78½	* † Urbana
Newman, Louise Marie	LAS (SS)	105	* † Urbana
Newman, Roy Leo	Chem	28	* † Chicago
Newmark, Valentine Payne	Jnl (SS)	30	* † Tulsa, Oklahoma
Newport, Willard Leslie	Agr	65	* † Hillsboro
Newton, Dorothy	LAS	29	* † Urbana
Newton, Frank Wilson	Agr	99	* † Champaign
Newton, Helen Charlotte, B.S., 1920	SS	167½	* † Fairfield
Newton, Lillie Mae	Bus	63	* † Champaign
Ni, Tak Kei	ChE (SS)	61½	* † San Francisco, California
Nichols, Aldridge Reed	RME	8	* † Decatur
Nichols, Arthur Summer	LAS		* † Forest Park
Nichols, Esther Inez	HEAgr	65½	* † Elmwood
Nichols, Ethel Davenille	HELAS	127½	* † Urbana
Nichols, Hilton C	Agr (SS)	98	* † Moline
Nichols, Ina Pearl	HEAgr	72½	* † Green Valley
Nichols, Orville Raymond	EE		* † Palestine
Nichols, Pauline Angeline	Bank	97	* † Moline
Nichols, Robert Naime	AE	61	* † Moline
Nichols, Warren Alfred	Bus		* † West Liberty, Iowa
Nicholson, Charles Harris	Bus (SS)	43	* † St. Louis, Missouri
Nicholson, Helen Virginia	LAS		* † Indianapolis, Indiana
Nickel, Walter John	SS	11	* † Sheboygan, Wisconsin
Nicolet, Clara Burt	ME (SS)	96½	* † Urbana
Niedergesaeuss, Selma Alice	HEAgr	87½	* † Chicago
Nieh, Chao Ling	RME		* † Kiangsi, China
Niehaus, John Mark	Law	49½	* † Peoria
Niemann, Wilmont Edwin	EE	69½	* † Mt. Olive
Niemeyer, Ralph Charles	Ins	27	* † Belleville
Niess, Netta Virginia	LAS		* † Belleville
Nilson, Albin Arthur	Agr	24½	* † Greenville
Nilson, Ann Eleanor	LAS	66	* † Chicago
Nilson, Edla Dorothea	LAS	105½	* † Chicago
Nilson, Karl Andrew	ME		* † Chicago
Nilson, Olga Evelyn	LAS	26	* † Chicago
Nims, Isabelle Eugenia	LAS	33	* † Chicago
Nirder, Georgia Agnes	CCS		* † Kinmundy
Nissen, Henry Wieghorst	LAS	36	* † LaSalle
Nitta, Arata Leo	Chem		* † Fukushima, Japan

Nobiling, Walter Louis	Agr	68½	* † Kewanee
Noble, Arthur James	EE		* † Blue Island
Noble, Dorothy Vernon	LAS		* † Chicago
Noble, Edna Clara	SS	8	* † Dayton, Ohio
Noble, Herman Emerson	ME	33½	* † Decatur
Noble, Lena Mae	HELAS	60	* † Aledo
Noble, Reuben Priestly	Bus	32	* † Princeton
Nobles, Clarence Redden	SS	7	* † Buncombe
Noelle, William Lincoln	Bank	83	* † Chicago
Noethling, Clarence Max	RCE	70½	* † Chicago
Nofsinger, Charles William	ME	64	* † Kansas City, Missouri
Nolan, Anne Veronica	Bus		* † Gilbert, Minnesota
Nolen, Harry Fern, B. S., 1920	SS	153½	* † Urbana
Noling, May Elizabeth	Bus		* † Taylorville
Noonan, Charles Walter	Bus	18½	* † Granite City
Norain, Helge Bernard	CE	36	* † Hubbard Woods
Nordgren, Maurice Leland	EE	121	* † Galva
Nordmeyer, Melusina Dorothea	Mus		* † Chebanse
Norman, Absalom Willie	SS		* † Culpeper, Virginia
Norman, Helen Grant	LAS (SS)	103½	* † Champaign
Norman, Willard Alfred	Chem	104½	* † Chicago
Norris, Edith Pearl	LAS		* † Blackton, Arkansas
Norris, Ralph Sackett	Agr	26½	* † Galena
Norrish, Edith Margaret	LAS	45½	* † Morrison
Northam, Carleton Drury	ME	41	* † Kenilworth
Northup, Beatrice Edith	SS		* † Griggsville
Norton, Francis Berne	Agr	53	* † Flat Rock
Norton, Marc Carpenter	Bank	61	* † Champaign
Norton, Philip J	Chem	20	* † Belvidere
Nothenberg, Esther Mercedes	LAS	57	* † Chicago
Nothwang, Roswell Standish	Jnl (SS)	111	* † Little Rock, Arkansas
Novak, Julius B	MedP	68½	* † Chicago
Novak, Leonard Louis	Bus	15½	* † Chicago
Novak, Maurice	ChE	69½	* † Chicago
Novotny, August Louis	IndA	34½	* † LaGrange
Nowlan, Ralph Elmo	Agr	29	* † Lafayette
Nowlin, Wilfred Jonathan	MedP		* † Farmer City
Noxon, George Albert	IndA	83½	* † St. Louis, Missouri
Nuckolls, John Albert	Agr	50½	* † Springfield
Nuessle, Dwight Avery	Bus	55	* † Onawa, Iowa
Null, Fay Edison	EE	41	* † Urbana
Nutt, Clarence Arthur	Agr (SS)	29	* † Mendon
Nutt, Harold William	Accy sp		* † Urbana
Nutt, Verna Elizabeth	HEAgr		* † Mendon
Nuttall, Mrs. Olive Elizabeth	HELAS		* † Bethany
Nuttall, Walter Herman	Agr		* † Bethany
Oakes, Bernard Francis	Bus	30	* † Maywood
Oakes, Edna Faye	LAS		* † Independence, Kansas
Oakes, James Lowe, Jr.	Law sp		* † Champaign
Oakes, Junieir Donald	IndEd	44½	* † Champaign
Oberholzer, Kenneth Edison	Agr		* † Tulsa, Oklahoma
Oberkoetter, William Francis	Bus		* † Bloomington
Ochoa, Gaspar Dilermando	Agr sp		* † New York, New York
Ocker, Ellen Katherine	LAS	30	* † Indianapolis, Indiana
O'Connell, John Bernard	REE	51	* † Chicago
O'Connor, Edward John	Bus	39	* † Kewanee
O'Connor, Forrest Edward	Agr		* † Elgin
O'Connor, Martin Earl	Law	59	* † Kewanee
O'Connor, Roger Russell	EE	88	* † Chicago
O'Donnell, Edmund Michael	Chem		* † Lee
O'Donnell, Emmett Erwin	ChE	27	* † Ottawa
O'Donnell, Frank Harley	Jnl	80½	* † Champaign
O'Donnell, John Burke	Bus sp	8	* † Chicago
Oechsner, Rose Emma	HEAgr	32	* † St. Louis, Missouri
Oehler, Alvin William	EE	33	* † Minier
Offlighter, Hallie Marion	LAS	98½	* † Champaign
Ogdon, Montelle Ernest	LAS		* † Urbana
Ogg, Velma Althca	HELAS		* † Scottville
O'Hair, Mildred	LAS	70½	* † Bainbridge, Indiana
O'Hara, James Henry	LAS (SS)	49	* † Urbana
O'Hern, John Donald	LawP	30	* † Vermont
O'Hern, Joseph Paul	IndA	33	* † Champaign
Ohm, Henry Vincen	Agr		* † Mattoon
Ohrenstein, Floret Leona	LAS		* † Garv, Indiana
Ohsawa, Gen	ME (SS)	29	* † Chiba, Japan
Ojemann, Ralph Henry	Agr		* † Peoria
Okey, Mary Carolina	Agr	104	* † Monmouth
Olander, Milton Martin	CE	64	* † Rockford
Olcott, Horace Williams, Jr.	RT		* † Mt. Vernon, New York
Olsen, Andrew Peter	Law sp		* † Chicago
Olsen, Esther Gertrude	Jnl	33	* † Rockford
Olsen, Henry Erling	CE	34	* † Chicago
Olsen, Oscar Edward	AE		* † Chicago
Olsen, Rangwald Severn	ChE	33½	* † Chicago
Olsen, Arthur Humboldt	Bus	28½	* † Chicago
Olson, Carl Albert	EE		* † Chicago

Olson, Carl Reyerson	<i>Agr sp</i>		* † Chicago
Olson, Ellyn Gertrude	<i>LAS</i>		* † Chicago
Olson, Elmer Ellsworth	<i>LawP</i>		* † Danville
Olson, Glennard Theodore	<i>ME (SS)</i>	65	* † Chicago
Olson, Helen Marie	<i>LAS</i>	90	* † Galesburg
Olson, Irma Eunice	<i>LAS</i>	57	* † Chicago
Olson, Oscar Bernard	<i>Voc sp</i>	10	* † Urbana
Olson, Ray W	<i>LAS</i>	18	* † Weldon
Olson, Raymond Irving	<i>AE</i>		* † Chicago
Olson, Verner Bylow	<i>CE</i>	77½	* † Chicago
Olson, Willard Earnest	<i>Bus</i>		* † Morris
Oltusky, Lena Ann	<i>LAS</i>		* † Waukegan
Oltusky, Rose Josephine	<i>Jnl</i>	72½	* † Waukegan
Olwin, John Harold	<i>Chem</i>		* † Robinson
Olympia, Alfonso Geducos	<i>Bus (SS)</i>	9½	* † Boac, Philippine Islands
Omansky, Samuel, B.S., 1920	<i>SS</i>	149	* † Champaign
Omark, Reuben Erick	<i>ME</i>		* † Kewanee
O'Neal, Albert Klein	<i>Bus</i>		* † Tallula
O'Neil, Dwight De Witt	<i>Chem</i>	8	* † Collinsville
Ongekeo, Jose Vismancos	<i>ChE (SS)</i>	23	* † Atlas, Philippine Islands
Opie, Glen Elizabeth, A.B., 1916	<i>SS</i>	137½	* † Forrest
Opp, Firman Richard	<i>Agr</i>		* † Moroa
Oppenheim, Willard Carlton	<i>IndA</i>	62	* † Rockford
Orata, Pedro Tamesis	<i>ME</i>		* † Urdaneta, Philippine Islands
O'Reilly, Mary Janet	<i>LAS</i>		* † Indianapolis, Indiana
Orendorff, Nelson Edward	<i>Agr</i>		* † Weston
Orland, Fred William	<i>Agr</i>	113	* † Murphysboro
Orput, Raymond Alexander	<i>CE</i>	42	* † Rockford
Orr, Harold James	<i>LAS</i>	72	* † Tulsa, Oklahoma
Orr, Mary Elizabeth, A.B., 1914	<i>SS</i>	139½	* † Green Valley
Ortlepp, August Reinhart	<i>IndA</i>	4	* † Chicago
Orton, Julian Rockwood	<i>Agr</i>	55	* † Lincoln
O'Ryan, Fergus	<i>EE</i>	18	* † Oak Park
Orwick, Harvey Edson	<i>SS</i>		* † Adrian, Michigan
Osawa, Ichiro	<i>MSE sp</i>		* † Tokyo, Japan
Osberg, Theodore Nils Christian	<i>Agr</i>		* † Riverside
Osborn, Arthur Sprague	<i>ME</i>	31	* † Kansas City, Missouri
Osborn, Harold Hurst	<i>CE</i>		* † Washington Grove, Maryland
Osborne, Dorothy Myra	<i>LAS</i>		* † Danville
Osborne, Harold Marion	<i>Agr</i>	63	* † Butler
Osborne, Richard Lloyd	<i>EE</i>		* † Walnut
Osmon, Russell Marvick	<i>Bus</i>	8	* † Morris
Osnoss, Nelson	<i>LAS</i>	15½	* † St. Louis, Missouri
Osterling, Pauline Evva	<i>Bus</i>	3½	* † Chicago
Ostermeier, Frederick Walter	<i>Agr sp</i>	30	* † Springfield
Ostrum, Karl Crosier	<i>LAS</i>		* † Hinsdale
Otanes, Faustine Quosales	<i>EcEnt (SS)</i>	132½	* † Lupa, Philippine Islands
Otey, Edward Rainey	<i>Agr</i>	34	* † Marion
Otsubo, Takeo	<i>Chem</i>		* † Kagoshima, Japan
Ott, Edward Henry	<i>Bus</i>	38	* † Grand Ridge
Ott, George	<i>ME</i>	56½	* † Harvey
Ott, Rush Calvin	<i>ME</i>	35	* † Ogden
Otten, Paula	<i>LAS</i>		* † Kenilworth
Over, Harold Allard	<i>EE</i>	68½	* † Ft. Worth, Texas
Overbee, William Bryan	<i>REE</i>	125	* † Fairfield
Overend, Wallace Ivan	<i>Arch</i>	26½	* † Edelstein
Overy, Orville Raphael	<i>Bus</i>	35	* † Wolcott, Indiana
Owen, Admyrle Hayward, B.S., 1920	<i>SS</i>	133½	* † Villa Grove
Owen, George Edwin	<i>Bus</i>	41½	* † Chicago
Owen, Russell Wesley	<i>Law</i>		* † Le Roy
Ower, Edwin Charles	<i>Bus</i>		* † Sterling
Owens, Harold Chester	<i>Bus</i>		* † Indianapolis, Indiana
Owings, Nathaniel Alexander	<i>AE</i>		* † Indianapolis, Indiana
Paape, Walden William	<i>LG</i>	27	* † Lake Forest
Pabst, Mark William	<i>Bus</i>		* † Berwyn
Pachynski, Bernard Louis	<i>MedP</i>		* † Chicago
Pacis, Vicente Albano	<i>Jnl</i>		* † Vintor, Philippine Islands
Packard, Carroll Dwight	<i>SS</i>	6	* † Urbana
Packard, James Edgar	<i>SHAEd sp</i>		* † Logansport, Indiana
Packard, Reginald Floyd	<i>ME</i>	136	* † Peoria
Packard, Russell Lowell	<i>SS</i>	7	* † Urbana
Pake, John Archer	<i>Bus</i>	26	* † Elgin
Pake, Kirk Lee	<i>Accy</i>	38	* † Indianola
Pake, Marva Adele	<i>Mus</i>		* † Chicago
Pagin, Lewis Bernhard	<i>SS</i>	110½	* † LaGrange
Pahl, Henry Dettcf	<i>Bus</i>	22½	* † Clinton, Iowa
Paisley, George Francis	<i>Law</i>		* † Decatur
Pake, Bernard Lewis	<i>IndA</i>	4	* † Montgomery, Alabama
Palmer, Arthur Bowen	<i>CE</i>	98	* † Urbana
Palmer, Carita Louise	<i>Bus sp</i>		* † McLean
Palmer, Carl Bradley	<i>Bus</i>		* † Dallas, Texas
Palmer, Edgar Elmo	<i>SS</i>	4	* † Dow
Palmer, Grace Rhodes	<i>HELAS</i>	66½	* † Omaha, Nebraska
Palmer, Jere Ibbetson	<i>Bus</i>		* † Carlinville
Palmer, Margaret Wallbank	<i>LAS</i>	55	* † Urbana
Palmer, Marion Frances	<i>LAS</i>		* † Chicago



Palmer, Mary Dorothy	LAS		* † Urbana
Palmgran, Henrietta Amelia	LAS(SS)	30	* † Pittsburgh, Pennsylvania
Palmgreen, Leta Fern	LAS	11	* † Chicago
Pan, Shi Luen	Bank		* † Tientsin, China
Pankey, Thomas Lorton	ME	67½	* † Danville
Pantaleon, Francisco Fastidio	CerE	29	* † Castillyes, Philippine Islands
Parcel, Katherine Jeannette	HELAS	32	* † Casey
Park, Ethel Rosalind	Bus	30	* † St. Louis, Missouri
Parker, Charles Theodore	EE		* † Chicago
Parker, Francis Feland	IndA	8	* † Urbana
Parker, Genevieve Mary	HELAS	34	* † Gilman
Parker, Griffith Hilton	LAS	66½	* † Champaign
Parker, Helene Belle	LAS	60	* † Decatur
Parker, Helen Lucy, A.B., B.M., 1913, 1914	SS		* † Champaign
Parker, John Houston	ME	85½	* † Lincoln
Parker, Maurine	LAS		* † Champaign
Parker, Sanford Welding	EE	36	* † Oak Park
Parker, William Lee	Agr ssp		* † Carrollton
Parkhill, Beulah Blanche	LAS		* † Champaign
Parkhill, Olen George	Agr	100½	* † Champaign
Parkhill, William Theodore	Bus		* † Champaign
Parkinson, Helen Catharine	LAS	72	* † Lafayette, Indiana
Parizek, Libuse Marie	Mus		* † Chicago
Parks, John Edward	EE	68½	* † Elgin
Parmelee, Cullen Everett	CerE		* † Urbana
Parnell, Earl Ford	Agr		* † Ambia, Indiana
Paroni, Anthony R	LAS	59½	* † Piedmont, California
Parr, Harold Leslie	AE	108½	* † Champaign
Parr, Lucille	LAS	39	* † Cisco
Parr, Russell Curtiss	AE	8	* † Charles City, Iowa
Parres, Murray Herble	Bus		* † East St. Louis
Parrett, Ruth	HEAgr	64½	* † St. Joseph
Parrish, John Smith	FOM sp		* † Decatur
Parrish, Maurice G	LAS		* † Shelbyville
Parry, Gladys Mae	LAS		* † Tolona
Parsons, Allan Davies	Jnl		* † Chicago
Parsons, Mary Wilkie	LAS	65	* † Riverton
Parlow, Wilson Dempsey	LawP		* † Snyder, Oklahoma
Partridge, Edward Francis	Agr	33	* † Cornell
Partridge, Wilbur Arthur	Agr	45	* † Freeport
Pasley, DeEstin Leroy	Law		* † DeKalb
Pasternak, Thomas	LAS	63½	* † Kensington
Paterno, Antonio Maria	CE (SS)	49	* † Manila, Philippine Islands
Patten, Donald Carl	Bus	29	* † Oak Park
Patterson, Bernice Lorene	Bus	27	* † Malton
Patterson, Buthen Bruce	Bus	64	* † Houston, Texas
Patterson, Elizabeth Eleanor	Ed	95	* † Chicago
Patterson, Floyd Elwis	MedP ssp		* † Essex, Missouri
Patterson, Mary Jeannette	HELAS		* † Huntington, Indiana
Patterson, Nera McColpin	LAS	35	* † Robinson
Patterson, Oral Franklin	SS	5	* † Brownstown
Patterson, Richard Arnold	EE		* † Chicago
Pattison, Caryl Sylvia	LAS		* † Peoria
Pattison, Donald McClure	Agr	58½	* † Wilmette
Pattison, Richard Henry	Agr	49	* † Monmouth
Patton, Anna Marie	LAS	62½	* † Bridgeport
Patton, Audley Everett	IndA	104½	* † Pittsburg, Kansas
Patton, Franklin Koben	Bus	31	* † Chicago
Patton, Jennie Mae	HELAS	60	* † Charleston
Patton, Joseph Robinson, Jr.	CE	88½	* † Atlanta
Patton, Julia Uhl	LAS		* † Atlanta
Patton, Leigh Newsom	Agr	63½	* † Mt. Carroll
Paul, Clarence Tyrrel	Arch		* † Moline
Paul, Franklin Louis	Arch		* † Chicago
Paul, Gladys Louise	Mus sp		* † Peoria
Paul, Mary Josephine	SS	94½	* † Jerseyville
Paul, Olive Dorothy	LAS		* † Peoria
Paulson, Enoch Oliver	Agr	92	* † Champaign
Paulson, Philip	Agr	41½	* † Champaign
Pauly, Emma Lucille	LAS		* † St. Louis, Missouri
Pauly, Florence Pepperell	LAS		* † St. Louis, Missouri
Pauly, Grace Rundle	LAS		* † St. Louis, Missouri
Pawn, Zun Lean	RME (SS)	20½	* † Soochow, China
Paxton, Albert Elwyn	Bus	13½	* † Chicago
Paxton, Glen Gilbert	LAS	35½	* † Golden
Paxton, James Russell	Agr	32	* † Gibson City
Payne, John William	Ed	97½	* † Shelbyville, Missouri
Payne, Lucile	SS	37	* † Champaign
Payne, Maurine	LAS (SS)	62½	* † Champaign
Payne, Robert William	Agr	58	* † Chrisman
Payne, Thresa Dortha	Law (SS)	166½	* † St. Francisville
Payton, Arthur David	Bus	27	* † Urbana
Payton, Paul Leason	ForC (SS)	83	* † Taylorville
Peake, Charles Orlando	LAS	107	* † Jacksonville
Peale, Carroll Marcellus	ME	69½	* † Kansas City, Missouri

Pearce, Catherine Vale	LAS	30	* † Oak Park
Pearce, Dwight	LAS	34	* † Robinson
Pearce, Lee James	MedP		* † Eldorado
Pearce, Margaret Cathryn	LAS	65½	* † Chicago
Pearce, Roger Vincent	CE	16	* † Chicago
Pearce, Ruth Sara	LAS	66	* † Bowen
Pearman, Ralph David	Bus		* † Paris
Pearn, Florence Jane	LAS	27	* † Elmhurst
Pearson, Grace	LAS	70	* † Thornton, Indiana
Pearson, Howard Nelson	Bus	31	* † Delavan
Pearson, Irving Frederick	Ed	60	* † Rockford
Pearson, Lasche	Bus	99	* † Chicago
Pearson, Warner Macaulay	AE		* † Chicago
Peck, Claribel Edna	LAS (SS)	37	* † Harvard
Peck, Estella	LAS		* † Chenoa
Peck, Laura A. A. B., 1904	Lib		* † Syracuse, Nebraska
Peden, Donald Charles	Ath	36½	* † Kewanee
Peebles, Carter Davis	LawP	28	* † Carlinville
Peebles, Donald McClure	Law (SS)	25	* † Carlinville
Peeff, Nicola Tasseff	ME	65	* † Embore
Peeff, Peter Costoff	EE	5	* † Dermontzi, Bulgaria
Peel, Jesse Aldred	LG	40	* † Taylorville
Peer, Mrs. Mary Iona	HEAgr sp		* † McLeansboro
Peery, Harold Rich	SS		* † Polo
Peet, Harold Lewis	ME		* † Woodstock
Peifer, Harriet Elizabeth	Mus		* † Centralia
Peirce, Logan Fletcher	IndA	4	* † Chicago
Pelham, Hobart Damron	Accy	32½	* † Eldorado
Pelton, Leverett Lyndon	EE	35	* † Olmsted Falls, Ohio
Pelitz, Ralph Cheney	Jnl	103	* † Clinton
Pelzer, Grace Irene	Mus		* † Urbana
Pence, Helen Meyer	Ed sp (SS)	6	* † Harvard
Pendergast, Emily M.	LAS	72	* † Charleston
Pendleton, Marion Elizabeth	LAS		* † Fairfield
Pendry, Eliza Ruth	LAS	84½	* † Chicago
Penniman, William Leon	EE	6½	* † Normal
Pennington, Gladys Vernon	LAS	98	* † Kansas City, Missouri
Pentecost, Richard Hill	Bus	29	* † Elmhurst
Pentland, Robert Lawrence	EE	117	* † St. Louis, Missouri
Pepple, Lloyd Vivian	SS	16½	* † Belle Rine
Perardi, Frank	Chem	7½	* † Farmington
Percival, Joseph W.	Agr	103	* † Champaign
Pereboom, Frank Sylvester	Agr	1	* † Springfield
Perez, Arce Guillermo	EE	95½	* † Guadalajara, Mexico
Perkins, Allan Thornton	CE		* † Garden City, Kansas
Perkins, David Homer	Accy	19	* † Paris
Perkins, Esther Marjorie	LAS	60	* † Mendota
Perkins, Philip Powell	ChE	65½	* † West Chicago
Perkins, Ressho Wilbur	LAS	32	* † Urbana
Perkins, Wayne Emerson	Bus	60	* † Mendota
Perlman, Samuel Charles	Ath	102½	* † Chicago
Perlman, Samuel Lyon	ChE	18	* † St. Louis, Missouri
Perlman, Victor Charles	Bus	13½	* † Chicago
Perlt, Rudolph Henry	SS	8½	* † St. Paul, Minnesota
Perrine, Lurena	HELAS	33	* † Anna
Perrott, Alma Starr	Mus	105½	* † Champaign
Perry, George Herrman	Law sp		* † Macedonia
Perry, Lilburn Pleasant	LAS	24	* † Chester
Perry, Nellie Cora	Bus	46½	* † Champaign
Perry, Thomas Laeman	ChE	41	* † Johnston City
Perryman, Delmar Dexter	Voc tsp (SS)	22	* † Urbana
Person, Roy Ludwig	Voc tsp	15	* † Chicago
Peterman, Fred Eugene	SS		* † Sumner, Michigan
Peters, Christopher Snigdam	ChE		* † Trivandrum, India
Peters, Roberta Elizabeth	LAS		* † Mt. Sterling
Petersen, Arthur Euvoild	Bus	20½	* † Chicago
Petersen, Gertrude Ludwig	IndA		* † Chicago
Petersen, Peter Gilbert	Bus		* † Moline
Petersen, Carl Edmund	Agr		* † Virginia
Petersen, Charles Melville	C&L		* † Chicago
Petersen, Frank Lindell	Bus	99½	* † Chicago
Petersen, Ivan Lorenza	ME	66	* † Chicago
Petersen, James Andrew	Law	122½	* † Galva
Petersen, John Willard	ME		* † Champaign
Petersen, Katharine Lois	LawP		* † Moline
Petersen, Lambert Edward	LAS	95	* † Chicago
Petersen, Leonard Nels	Bus	35	* † Downers Grove
Petersen, Lillie Esther	LAS	1½	* † Loda
Petersen, Maurice Winfield	Ath	69½	* † Rockford
Petersen, Paul Owen	EE		* † Champaign
Petersen, Ruth Mabel	HEAgr		* † Carlinville
Petersen, Sherman Fletcher	Bus	61	* † Chicago
Petersen, Walter Bernard	Agr	31½	* † Rockford
Petersen, Walter Paul	ME	36	* † Chicago
		7½	* † Chicago

Petree, Leo Harley	SS		Union City, Pennsylvania
Petrie, Audrey Marion	Jnl		* † Greenview
Petrulis, Bruno Stanley	Agr		* † Chicago
Pettee, Harold Arthur	Agr	4½	* † Princeton
Pettersen, Herbert Christian	CE		* † Chicago
Petterson, Edwin Sydney	ME	8	* † Naperville
Pettigrew, Steward William	Bus	34	* † Oak Park
Pettijohn, Henry	LAS	21	* † Blue Island
Pettis, Irving McFarland	Bus		* † Evanston
Peyton, Edna, A.B., 1920	SS	132½	* † Warsaw
Pfeifer, Oliver Conrad	MedP	32	* † Mascoutah
Pfeiffer, Arthur Edwin	ME	39	* † Edwardsville
Pfeiffer, Frederick Lyle	Bus	35	* † Centralia
Pfeiffer, Wilbur Henry	EE		* † Edwardsville
Pfitzenmeyer, Ada Murray	HELAS	110½	* † LeRoy
Phalen, Francis Joseph	EE	38½	* † Allerton
Pharis, Juanita Fae	Mus		* † West Frankfort
Phelps, Dorothy Maude	LAS		* † Webster Groves, Missouri
Phelps, Edmund Strother	LAS	40	* † Chicago
Phelps, Harley Weddell	FOM		* † Lawrenceville
Phelps, Mary Edna	Mus	105½	* † Lawrenceburg, Kentucky
Phelps, Vernon Lovell	ForC		* † Big Rock
Phelps, William Carne	Bus	38	* † Oak Park
Phillips, Andrew Sheldon	Arch	59	* † Mattoon
Phillips, Burdette Orville	Agr		* † Tonica
Phillips, Elizabeth	LAS		* † Oskaloosa, Iowa
Phillips, Erna	LAS	23	* † Chicago
Phillips, Gerald Howell	SS	23	* † Philadelphia, Pennsylvania
Phillips, Harriet Muriel, B.S., 1919	Agr irr	130½	* † Sanzcluck, Michigan
Phillips, Hazel	LAS		* † Benton
Phillips, Helen Marie	SS	10	* † Clinton
Phillips, Howard Kendall	Bus	20	* † Maywood
Phillips, Josephine Pauline	Bus	36½	* † Mattoon
Phillips, Lemuel	LAS	47½	* † Urbana
Phillips, Mary Dodds	Mus sp	7½	* † Anna
Phillips, Richard Ervin	ME		* † Urbana
Phillips, Robert John	Bus	33	* † Elgin
Phillips, Val Franklin	SS		* † Spring Valley
Phillips, Virginia Ethel	LAS		* † Benton
Phipp, Ruth Marie	LAS	30	* † Kansas
Picha, Rudolph Joseph	Agr	45½	* † Chicago
Pickard, Edna Odessa	SS	3	* † Rankin
Pickens, Louise Milliken	HELAS (SS)	109½	* † Ottawa
Pickett, Gladys Adele	LAS		* † River Forest
Picknell, Helen Virginia	LAS	65	* † Champaign
Pieper, Arnold Christian	RT (SS)	97	* † Champaign
Pierce, Maurice J	Accy	116½	* † Paxton
Pierson, Irene Dorothy	LAS		* † Argenta
Pierson, Orman	Ath		* † Carrollton
Pierson, Stella H, A.B., 1917	Lib (SS)	8	* † Savonburg, Kansas
Pierson, Stuart Witwe	Bus	8	* † Carrollton
Pifer, Charles D	Jnl		* † Elkhart, Indiana
Pigall, Anna Josephine	LAS	33	* † Chicago
Pigall, Elizabeth Kerns	LAS	32	* † Chicago
Pighetti, John Constantine	CE		* † Chicago
Piit, Benito Arcadio	CE	31½	* † Cagayan, Philippine Islands
Pilgrim, Wilbur Francis	Bus	65½	* † Chicago
Pillsbury, Avis Miller, Ph.B., 1920	Lib		* † Providence, Rhode Island
Pinckard, Harold Recenus	Jnl	108½	* † Monticello
Pinckney, Howard Nelson	IndA		* † Ft. Smith, Arkansas
Pingrey, Marian Frances	LAS sp		* † Bloomington
Pinkel, Leland Armin	Bus	27½	* † Collinsville
Pinkowitz, Meyer David	ME	29	* † Chicago
Pinkstaff, James Tilden	Eng tsp	69½	* † Champaign
Pirie, Albert John	Bus		* † Chicago
Pitman, Roy Gilbert	Ind Ed	28	* † French Lick, Indiana
Planck, Arthur F. Jr.	Bus	33½	* † Chicago
Player, John Milton	Agr		* † West Chicago
Pletcher, Louise March	LAS	94	* † Jacksonville
Plinke, Gordon Henry	CerE	27	* † Dundee
Plocinsky, Harold Enoch	AE	58½	* † Chicago
Plotner, Richard Harry	Law sp		* † Anderson, Indiana
Plunkett, Pius Paul	Agr	31	* † Palestine
Plym, Lester Marshall	EE	121½	* † St. Charles
Podlesak, George Joseph	IndA		* † Chicago
Podolsky, Eve Charra	LAS		* † Chicago
Poindexter, Gabriel Garner	LAS	37	* † Indianapolis, Indiana
Poirot, Eugene Marcel	Agr	61	* † Belleville
Polk, Mary Agnes	HELAS		* † Urbana
Pollard, Mrs. Lucile Lovenia	SS	8	* † Urbana
Pollard, Robert Lynn	EE	63	* † Springfield
Pollitt, Ida Marie	LAS		* † Urbana
Pollock, James Stuart	Bus	32	* † Urbana
Pomeroy, Harriett Barrington	LAS		* † Kewanee
Pomeroy, John Maxwell	ME	8	* † Urbana
Pomeroy, Lawrence Hitchcock	AE	28½	* † West Park, Ohio
			* † West Park, Ohio

Pond, Robert Franklin	CE		* † Boston, Massachusetts
Pond, Seymour Gates	LAS sp	22½	* † Urbana
Poole, Foster Malic	IndA (SS)	116½	* † Edwardsville
Popel, Bernard Benjamin	Jnl		* † Chicago
Popken, Roland Henry	CE		* † Oak Park
Porch, Louise	HEAgr	62½	* † Chebanse
Poretsky, Hymen Lewis	ForC		* † Waukegan
Porter, Barbara Louise	Agr	98½	* † Bloomington
Porter, David Quigg	Agr ssp	9	* † Chicago
Porter, Haratio Allingham	Bus	85½	* † Gerlaw
Porter, Jennie Blanche	SS	32½	* † Williamston, Michigan
Porter, Jesse Cartledge	EE	73	* † Martinsville
Porter, Wayne S	Bus		* † Garden Prairie
Porterfield, Philip David	Arch		* † Fort Wayne, Indiana
Postle, David Elmer, Jr.	AE	36	* † Elgin
Porter, Beulah Adelia	HELAS	100½	* † Indianapolis, Indiana
Potter, Dorothy Buckman	SS	94½	* † Champaign
Potter, Frances Eudora	LAS (SS)	25½	* † Champaign
Potter, Glenn Everett	Ath	8	* † Orange, California
Potter, Howard Pratt	MSE	50	* † Decatur
Potter, James Streater	Agr (SS)	54½	* † Quincy
Potter, Kathryn Wilder	LAS	34	* † Champaign
Potter, Paul Milton	EE	18	* † Champaign
Pottle, Lucille	LAS		* † Wichita, Kansas
Potts, F Morrell	ForC (SS)	68½	* † Champaign
Potts, Virgil Wayne	Bus	44½	* † St. Francisville
Powel, Roland Nelson	EE		* † Jerseyville
Powell, Alden Leslie	MedP		* † Rockton
Powell, George Robert	AE	36½	* † Canton
Powell, Weldon	Accy (SS)	71	* † Champaign
Powell, William Jenifer	EE (SS)	87	* † Chicago
Powers, Edna Adella	LAS	101	* † Sterling
Powers, Lois Martha	FOM	29	* † Buller, Indiana
Powers, Paul Mighell	ME	64½	* † Blackfoot, Idaho
Powers, Ray Lyman	Bus	57	* † Barrington
Poyser, Gail Kenneth	Agr (SS)	47	* † Waukegan
Prather, Jerome Jacob	MinE	18½	* † Chicago
Prather, Vernon Dewey	Agr	38½	* † Urbana
Pratt, Harry Edward	Ath	37	* † Cambridge
Pratt, Meryle Edith	LAS	70	* † Chicago
Pratt, Raymond Gilmore	Bus		* † Galva
Preble, Donald Jay	Chem	94	* † Kokomo, Indiana
Preble, Mrs. Dorothy Katherine	LAS	84	* † Champaign
Preble, Robert Curtis	IndA	108	* † Oak Park
Prescott, John Shedd	LAS	99	* † Wilmette
Preston, Ray Cameron	Bus		* † Gibson City
Preston, Walter Bryon	Lav		* † Pekin
Prencil, George	Bus	65½	* † Oak Park
Prewett, Clarence Granville	Agr		* † Marshall
Prewitt, Floyd Earl	Accy	32	* † Urbana
Price, Arthur Jerome	LAS	28	* † Grant Park
Price, Arthur Lowell	FOM	126½	* † Decatur
Price, Clem Wilson	Bus		* † Richmond, Indiana
Price, Harold Gordon	Agr	97	* † Dwight
Price, Miles Oscar, B.S., 1914	Lib	30	* † Plymouth, Indiana
Prichard, Ginevra Gregory, B.M., 1920	SS	132	* † Urbana
Prichard, Louise Gilman	LAS	96½	* † Champaign
Prindle, Mabel R	LAS		* † Mounds
Pringle, Helen Smith	LAS	122½	* † Normal
Pritchard, Edwill Humphrey	EE	34	* † Maywood
Pritchard, Hettie Justine	LAS	68	* † Indianapolis, Indiana
Pritchard, Jane Sheppard	LG		* † Indianapolis, Indiana
Probst, Marvin George	Arch	28½	* † River Forest
Pronoff, Helen Stewart	LAS		* † Chicago
Pruett, John Howell	LAS		* † Harrisburg
Pruitt, Charles Herbert	Ed	71½	* † Orange, California
Pruitt, Frederick Henry	MedP		* † St. Louis, Missouri
Pruscha, Fred Romain	SS	8	* † Cedar Rapids, Iowa
Puotta, William	EE	26½	* † Pilger, Nebraska
Puderer, Philip Cyril	Arch		* † Belleville
Pugh, Cloyd	Agr	127½	* † Ridgefarm
Puls, Edwin Ernest	EE	64½	* † Hoskins, Nebraska
Pulver, Ebbert Lyle	LG	94½	* † Fairmont, Minnesota
Punke, Harold Herman	Agr		* † Elliott
Puntambekar, Shrinati Venkatesh	ChE		* † Poona City, India
Purcell, James Sheldon	AE	24½	* † Chicago
Purdy, Glenn Gibson	ME	38½	* † Joliet
Purer, Lester Everett	LAS		* † Chicago
Pursell, Florence Bryant	SS	72½	* † Urbana
Pursell, Wally Emerson	Accy	62½	* † Urbana
Pusey, Dessa	LAS sp		* † Greenfield, Indiana
Pusey, Lora Gene	LAS		* † Greenfield, Indiana
Putnam, Leonard Scott	Bus	81	* † Peoria
Patz, Clifford Raymond	CE	32½	* † Rockford
Putt, Robert Raymond	SS	7½	* † Pinckneyville
Pike, Donald O'Conner	Bus (SS)	63½	* † Peoria

Pyke, Martha	LAS	31	* † Peoria
Pyle, Wendell Amyas	EE		* † Brownsville
Quackenbush, Charles Verbeck	SS	64	* † Aurora
Queen, William Robert	Agr	31½	* † Laomi
Quillan, Bennett Bruce	Bus		* † Chicago
Quillman, Frank L	MedP		* † Benton
Quillman, King Carson	Bus	34	* † Benton
Quin, Lorraine Phillippe	Jnl	39	* † Waukegan
Quinby, Ivory	Agr	143	* † Monmouth
Quinette, William Henry, Jr.	Bank		* † Lawton, Oklahoma
Quinn, Francis Jones	Bus	49	* † Lafayette
Quinsey, Donald Leroy	Bus	33	* † Yorkville
Quisenberry, Rheuben Hess	Bus	2½	* † Armington
Rabenaw, John	Accy	108	* † St. Louis, Missouri
Rabinowitz, David Henry	Bus	95	* † Chicago
Racine, Hugh Clark	Bus	30	* † Urbana
Racine, Roy Charles	LawP	25	* † Urbana
Radeke, Alfred Frederick	Bus	33	* † West Palm Beach, Florida
Rader, Jesse Lee, A.B., A.M., 1908, 1913	Lib	10	* † Norman, Oklahoma
Radtke, Stephen John	SS	113	* † Atilla, Indiana
Rafferty, Keen Alexander	Jnl		* † Robinson
Raffin, Philip Jordan	Agr		* † Kenosha, Wisconsin
Raffi, Alberta	Arch	34	* † Red Bud
Raggio, Maynard Holding	LAS (SS)	78½	* † Chicago
Ragland, Nugent Atherton	CerE	90½	* † Casey
Ragsdale, Ralph Waldo	Agr		* † Yates City
Rahn, Agnes Marie	HEAgr	68½	* † Thornton
Rai, Narabhoop	ME		* † Bengal, India
Raich, Edwin John	CE	70½	* † Warsaw
Raines, Merle Vincent	LAS (SS)	93	* † Urbana
Rainey, Frances Lenore	LAS	101½	* † Pueblo, Colorado
Rainey, Helen Edna	Mus		* † Mt. Vernon
Rainey, Lloyd	Accy	41	* † Benton
Ralston, Albert Alexander	EE	39½	* † Rockford
Ralston, Glenn Smith	MedP	20	* † Rockford
Ralston, John Caldwell, Jr.	Agr	75½	* † Caledonia
Ramadanoff, Dimitri	EE		* † Sofia, Bulgaria
Ramos, Martinez Juan	Agr sp		* † South Jacinto, Mexico
Ramser, Joseph Retz	CE		* † Alma
Ranahan, Arthur Frank	Arch		* † Terre Haute, Indiana
Randall, Frank Austin	Agr	31	* † Brookfield
Randolph, Charles Ethelbert	Agr	61½	* † Onarga
Rankin, Esther Byrle	Bus		* † Champaign
Rankin, Glenn Wood	Bus sp (SS)	37	* † Monmouth
Rankin, Harley Lester	IndA	59	* † Pekin
Ranney, Ralph Richard	FOM	32	* † Cazenovia
Ransburg, Ralph Herbert	Bus	39½	* † Indianapolis, Indiana
Ransley, Frank Burdette	Agr		* † Verona
Ranz, Freda Madeline	LAS		* † Watseka
Raphaelson, Lily Ruth	LAS		* † Chicago
Rapp, Mrs. Esther Hulling	HEAgr (SS)	18½	* † Champaign
Rardin, Glen Nelson	LawP		* † Worthington, Indiana
Rarick, John Nelson	Agr	93	* † Urbana
Rasmussen, Edvald Lawrence	Bus	43	* † Chicago
Rasmussen, George	Bus	65	* † Champaign
Rasmussen, Harold Bijner	Bus	144½	* † Chicago
Rasmussen, John Cadwalader	Flor	100½	* † New Albany, Indiana
Rasmussen, Robert Peter	LAS sp	35	* † Chicago
Ratcliff, Kathryn Louise	HELAS		* † Oak Park
Rath, Howard Harbin	Bus	94½	* † Waterloo, Iowa
Rathbun, Rowland	Bus		* † Glen Ellyn
Ratesberger, Anna Stimpson	LAS		* † Milford
Rauch, Arthur Edward	Bus		* † St. Charles, Missouri
Rauch, Herbert Louis	MinE	74	* † St. Louis, Missouri
Ravlin, Marian Frances	LAS sp (SS)	7	* † Kaneville
Rawlings, Cecil Otis	AE		* † Strasburg
Rawls, John Correll	Agr	23	* † Champaign
Ray, Alpheus Clyde	SS	8	* † Urbana
Ray, Floyd William	Arch (SS)	111½	* † Urbana
Ray, Helen Margaret	HEAgr		* † Urbana
Ray, William Clarence	LAS		* † Decatur
Rayburn, Gladys Adele	LAS	47½	* † Champaign
Raymond, Emerson Edward	AE	114½	* † Chicago
Raymond, Maurice Sheall	LAS		* † Chicago
Rayner, Reginald Newman	ME	38½	* † Elgin
Reading, Clyde William	Bus		* † Oak Park
Reamer, Richard S	ChE		* † St. Louis, Missouri
Reasor, Marion Lowell	Bus		* † Hindsboro
Rebbe, Alfred Fred Henry	IndEd		* † Chester
Rebhan, Howard Henry	Agr	17	* † Raymond
Reed, Carl Alton	SS	8½	* † Gardiner, Maine
Reed, Cora Lee	HEAgr		* † Little Rock, Arkansas
Reed, Daisy	SS	77½	* † Herrin
Reed, Gordon Wies	ME	68½	* † Chicago
Reed, James Lowell	Law		* † Eldorado
Reed, Leo Bracy	Bus	110	* † Eldorado

Reed, Robert Tevis	Chem	71	* † Indianapolis, Indiana
Reed, Sarah Almeda	LAS	30	* † Sullivan, Indiana
Reed, Thelma Lodie	LAS		* † Little Rock, Arkansas
Reed, Theodore Wesley	Bus		* † Lafayette
Reed, Wilma Virginia	HEAgr	99½	* † Equality
Reeder, Fred Nelson	LAS	31	* † Clinton, Indiana
Rees, Olive	HELAS	103½	* † Bradford
Reese, George Henry	LAS		* † Paris
Reeter, Roy Roderick, B.S., 1917	SS	7	* † Lake City
Reetz, Carl Godfried	CE	36	* † Charles City, Iowa
Reeves, Albert William	EE		* † Tulsa, Oklahoma
Reeves, Bert L.	SS	88	* † Weldon
Rehnquist, Alf Christian	CE	113	* † Chicago
Rehnquist, Vivian Nathaniel	CE	35	* † Chicago
Rehorst, Arthur Henry	Bus	50	* † New Hampton, Iowa
Reich, William Robert	Chem	72½	* † Urbana
Reichert, Gladys Marion	LAS	62	* † Chicago
Reichle, Richard Wendell	Bus (SS)	70½	* † Benson
Reid, Emily Cleda	SS	80	* † Albion
Reid, George Walker	LawP	66½	* † Harvard
Reid, Jessie Adaline, B.S., 1914	Lit		* † Rockford
Reid, Lorena Grace	HEAgr (SS)	8	* † Albion
Reid, Prentiss Edgar	Agr (SS)	35½	* † Champaign
Reid, Willa D.	LAS		* † Springfield
Reid, William Griffith	Agr	33	* † Genoa
Reidner, William Edward	SS	16	* † Ferris
Reiman, Alfred Fred	Bus		* † St. Louis, Missouri
Reiman, Charles	ME sp		* † East St. Louis
Reiman, Russell Andrew	LG	8	* † Wooster, Ohio
Reiman, William Louis	ChE	38	* † St. Louis, Missouri
Reinhardt, Henry Russell	AE		* † Owensboro, Kentucky
Reinisch, Bernhard Paul, A.B., M.S., 1918, 1920	Arch irr		* † Urbana
Reis, Leonard Joseph	Arch (SS)	84½	* † Green Bay, Wisconsin
Reisner, Arthur Gustav	SS	8½	* † Cincinnati, Ohio
Reitsch, Henry Oviatt	Bus	56	* † Rockford
Rend, William Paul	MinE sp		* † Chicago
Rennebaum, Ernest Henry	LAS (SS)	91½	* † Franklinville, New Jersey
Rennels, Coryl	LAS	48	* † Charleston
Rennels, Oma	HELAS sp		* † Charleston
Renner, Edna Louella	LAS		* † Urbana
Rennoe, Edgar Jackson	Bus	77½	* † South Bend, Indiana
Reparata, Mary	SS	16	* † Sinsinawa, Wisconsin
Resler, Edith Carmen	Bus	23	* † Fisher
Retherford, Mrs. Suzanne Zartman	Bus	13½	* † Roanoke, Indiana
Rettenmayer, Carl Adolph	C&L		* † Loup City, Nebraska
Pettenmayer, Clyde	EE sp	25½	* † Loup City, Nebraska
Rew, Ina Marcelain	Mus		* † Metropolis
Reynertson, George Dewey	AE	59½	* † Chicago
Reynolds, Albert Henry	ChE		* † Chicago
Reynolds, Fred Barnes	ChE	73	* † Berwyn
Reynolds, Grace Adelia	SHHEEd	66½	* † Chicago
Reynolds, Harry Allen	Bus	45½	* † Chicago
Reynolds, Henry Frederick	Bus		* † Chicago
Reynolds, Herbert Kenneth	Bus		* † Chicago
Reynolds, Hugh Elba	LawP	34	* † East St. Louis
Reynolds, James Carroll	Bus	32	* † Danville
Reynolds, Robert Julian	EE	8	* † Maltoon
Rezanka, Ruth Elsie	Mus		* † Harrisburg
Rhines, Parr Alvin	ME	14	* † Oak Park
Rhoades, Forrest Lawson	SS		* † Marseilles
Rhoades, Ruth Mary	LAS		* † Champaign
Rhode, Lillis Fanny	LAS	63	* † Kansas City, Missouri
Rhode, Lucy Ruth	LAS		* † Attica, Indiana
Rhodes, Frances	Mus	98	* † Attica, Indiana
Rhodes, May Hirschi	LAS		* † Altamont
Rhodes, William Addison	Bus	39½	* † St. Louis, Missouri
Rhton, Paul	SS		* † Cedar Rapids, Iowa
Rice, Bert Woodward	SS	28½	* † Washington, D. C.
Rice, Frederic Leland	LAS	32	* † Kankakee
Rice, John Leo	MedP		* † Aurora
Rice, La Verna	LAS		* † Bridgeport
Rice, Lois Marie	LAS (SS)	33½	* † Pontiac
Rice, Louise Trevey	LAS		* † Worden
Rice, Miriam Aileen	LAS		* † Rockville, Indiana
Rice, Nathan Lyman	Agr	20	* † Galena
Rice, Raymond Lawrence	Bus	117	* † Philo
Rich, Francis Marion	ME		* † Laporte, Indiana
Rich, Margaret	LAS		* † Chicago
Richards, Edward John	ME		* † Chicago
Richards, Milton Clyde, Jr.	LAS (SS)	36	* † Glencoe
Richards, Raymond Hamilton	AE sp (SS)	19½	* † Cleveland, Ohio
Richards, Robert Watt	ME	68½	* † Wyoming, Ohio
Richards, Sidney Jerome	AE		* † Urbana
Richardson, Barnett Raymond	ME (SS)	68½	* † Wilberforce, Ohio
Richardson, Edith Irene	LAS	98½	* † Oswego
			* † Tipton, Indiana

Richardson, James Hollins	CE	69½	* † Rentchler
Richardson, Ralph Lewis	EE	32	* † Rockford
Richburg, Louis Allan	MedP	30	* † Centralia
Richburg, Welton Edwin	MedP	29	* † Centralia
Richeau, Cathleen Mary	Jnl sp		* † Chicago
Richeson, Alice Eliza	LAS	31	* † St. Louis, Missouri
Richey, Juanita Poe	Mus	33	* † Palestine
Richey, Mildred Nancy	LG		* † Lawrens, Iowa
Richmond, Dorothy	LAS	23	* † Gibson City
Richmond, Jay	Mus		* † Parsons, Kansas
Richmond, Joseph Hale	CE		* † Chicago
Ricker, Lawrence Daniel	SS		* † Dayton, Ohio
Rickher, Robert Lawrence	Voc vsþ (SS)	15	* † Pocahtontas
Riddle, Garth Tuthill	Agr	30½	* † Urbana
Riddle, Reba	LAS (SS)	63½	* † Urbana
Riddle, Velma Grace	LAS	54	* † LeRoy
Rider, Jay Merle	Law		* † Rockford
Ridlen, Herman	LAS	42	* † Willow Hill
Riechman, Bernice Dorothy	SS		* † Greenview
Riegel, Edith E	HELAS	75½	* † Galatia
Riese, Hazel Fern	Bus	53	* † Bloomington
Rife, William Eldridge	Agr	60	* † Villa Ridge
Rigg, Vera Corrine	SS	6½	* † Havana
Riggs, Harold Miller	Bus	68	* † Indianapolis, Indiana
Righter, Cornelius Erwin	SS	7½	* † Campbell, California
Riley, Russell Hall	CE		* † Arrowsmith
Rilling, Charles William, Jr.	Bus	35	* † Chicago
Rindell, John Harmon	Bus	34	* † Wilmette
Ring, George Francis	Ath sp	2½	* † Chicago
Ringier, Margaret	SS		* † Quincy
Rinker, Harvey Willard	Agr		* † Grand Ridge
Rinker, Irving Treadwell	IndA	34	* † Chicago
Riordon, Marjorie Belle	Bus		* † Fulton
Rippberger, Rollin Raymond	Bus		* † Elgin
Risley, Lee Carlton	ME		* † Decatur
Ritcher, Henry Adelbert	SS	119½	* † Troy
Ritchie, Joseph Dee	Bus		* † Centralia
Ritsch, Howard Paul	IndA (SS)	98½	* † Chicago
Ritt, Arthur Carl Ludwig	Ath	25	* † Crystal Lake
Rittenhouse, Donald Arter	EE	125	* † Cairo
Ritter, August Herman	ME		* † Shermerville
Ritter, Claris	LAS	18	* † Chicago
Ritter, Harry Raymond	Chem		* † Memphis, Tennessee
Rixmon, Reuben William	SS	5	* † Greenville
Rizer, Conrad Kuhl	LAS	61	* † Champaign
Roach, Alden Gallup	CE	69½	* † St. Louis, Missouri
Roach, Arvella	LAS		* † Hammond, Indiana
Roach, Emmet John	Bus	98	* † Chatsworth
Roan, Charles Frederick	MedP	31½	* † Chicago
Roark, Dorothy Rose	LAS		* † Bushnell
Roark, Kathryn Rosemary	LAS	35	* † Bushnell
Robb, Harry Morton	SS	16	* † Windsor
Robb, John Christy	SS	4½	* † Rock Island
Roberts, Alice Erma	LAS		* † Joppa
Roberts, Beulah Beatrice	SS	5	* † Urbana
Roberts, Elmer Clifford	AE	101	* † Oak Park
Roberts, Paul Edward	Bus		* † Ottawa
Robertson, Almira Janette	LAS	33	* † Sparta
Robertson, Ansel Briggs	Bus		* † Washta, Iowa
Robertson, Daniel Hamilton	CE	5	* † Chicago
Robertson, Everard Packard	EE	35	* † Homer
Robertson, Ina Cullom	Ed		* † Centralia
Robertson, James Christian	Agr		* † Fowler
Robertson, La Rue Elizabeth	LAS	31	* † Riverside
Robertson, Laura Purcell	LAS	101	* † Kansas City, Missouri
Robertson, Robert Bruce	MedP	55½	* † Chicago
Robeson, Frank Kern	SS	60	* † Champaign
Robinson, Arthur Selden	CE	64½	* † River Forest
Robinson, Clyde North	EE	37½	* † Joliet
Robinson, Donald Bruce	ChE		* † Oak Park
Robinson, Everett Raleigh	LAS		* † Sesser
Robinson, George Germier	EE	2	* † Maywood
Robinson, Hobort Clay	Agr	73½	* † Kansas
Robinson, Hugh MacKellar	CE	35	* † Chicago
Robinson, James Hill	EE		* † Washington, D. C.
Robinson, Leon Wood	EE	104½	* † Watertown, New York
Robinson, Leonard John	Agr sp		* † Manchester
Robinson, Ross Olin	Agr	37½	* † Pittsfield
Robinson, Roy John	Bus		* † Atlanta
Robinson, William Bullard, Jr.	Agr	33	* † Wilmette
Robinson, William Ernest	LAS		* † Champaign
Robison, Edna Lean	SS	13½	* † Pittsfield
Robison, Morris	Bus		* † Carlinville
Robison, Ray Dewey	Agr	47	* † Ferris
Roca, Jaime	Arch sp		* † New York, New York
Rock, Burnham Sanborn	IndA	34	* † Kansas City, Missouri

Rock, Mildred Neena	HELAS		* † Kansas City, Missouri
Rockabrand, Carmen C	LAS	114	* † Sterling
Rode, Esther Frieda	HEAgr	66½	* † Granite City
Rodebaugh, Victor Bryan	Bus		* † Greenup
Rodecker, Alfred Wilson	Arch	29½	* † Indianapolis, Indiana
Rodgers, William Henry	EE	98½	* † Monmouth
Roe, Frank Chapman	ME		* † Chicago
Roeder, Marvin Clarence	Bus		* † Bloomington
Roepe, Roland A	Bus	35	* † Waterloo, Iowa
Roesch, Milton John	ME		* † Aurora
Roettger, Walter Henry	Bus		* † St. Louis, Missouri
Rogers, Arthur Frederick	Bus		* † Saybrook
Rogers, Joseph Owen	LAS		* † Watseka
Rogers, Mary Josephine	Mus	33	* † Urbana
Rogers, Paul	Bus	42½	* † Bloomington
Rogge, Oetje John	LAS	34	* † Petersburg
Roggero, Carlos Casas	LAS		* † Lima, Peru
Rohe, Conrad Martin	Bus	23	* † Blue Island
Rohe, Walter Henry	RA	108	* † Chicago
Rohrbaugh, Ruth Watson	HELAS	24	* † Kinmundy
Roland, Delmar William	MedP		* † Hume
Roland, Robert Hood	Flor(SS)	62%	* † Nahant, Massachusetts
Rolfe, Rial Edward	Bus		* † Chicago
Roll, Elmer George	Bus		* † Blue Island
Roll, Gilbert Arthur	Bus	87%	* † Blue Island
Roll, Roy Harold	Agr	72½	* † Mason City
Romberger, Robert Otto	SS	6½	* † Abilene, Kansas
Romig, Jesse Arnold	IndA	117	* † Urbana
Romig, John William	CE		* † Kewanee
Romig, Lieuelen De Wight	IndA (SS)	69	* † Urbana
Romig, Lois Lavone	SS	6½	* † Danville
Romine, Vernon Montelle	CE		* † Tuscola
Ronalds, Francis Spring	LAS	68½	* † Champaign
Ronalds, Nairive Westbrook	LAS		* † Eldorado
Rood, Marguerite Ellen	LAS	29½	* † Laurel, Mississippi
Rooney, James Cornelius	ChE	34½	* † Robinson
Roos, Roy Emil	Bus	15½	* † Chicago
Root, Roy Melvin	Arch(SS)	18	* † Urbana
Root, Russell William	Law	22	* † Urbana
Root, William Ruffle	Bus	34½	* † Terre Haute, Indiana
Ropiequet, Harold Wagoner	LawP		* † East St. Louis
Rosaire, Carol Gwyn	Agr	42	* † Chicago
Rosales, Alfonso Gomez	Chem (SS)	30	* † Mexico City, Mexico
Rosales, Leopaldo	MedP (SS)	24	* † Mexico City, Mexico
Rose, Benjamin Keith	AE	8	* † Warren, Ohio
Rose, Charles Imse	ChE	71½	* † St. Louis, Missouri
Rose, Freda Pearl	LAS	33	* † Champaign
Rose, Mrs. Gladys Mabel	SS	19	* † Champaign
Rose, Lena Belle	LAS	98	* † Urbana
Rose, Myron Potter	Bus	23½	* † Champaign
Rosebraugh, Esther May	HELAS	42	* † Charleston
Rosebraugh, Linder William	Accy	104½	* † Charleston
Rosen, Ainsley Harold	Bus	24	* † LaSalle
Rosen, Lloyd Charles	Agr	51½	* † LaSalle
Roseman, Irving Howard	Bus	57½	* † Chicago
Rosen, Thurey Samuel	EE	44½	* † Wausa, Nebraska
Rosenberg, Alexander	Jnl	61½	* † Bayonne, New Jersey
Rosenberg, Claude Bryan	EE		* † Loveland, Colorado
Rosenberg, Sidney	Bus	17	* † Cairo
Rosenblatt, Leonard Samuel	Bus ssp (SS)	26	* † Chicago
Rosenblum, Albert Frank	MedP	46½	* † Chicago
Rosenblum, Harriett Muriel	LAS	34	* † Waukegan
Rosenbluth, Joseph K	EE	40	* † Chicago
Rosendale, Harold	ME	73½	* † Chicago
Rosengard, Jerome	MedP	27	* † Chicago
Rosenquist, Carl Martin	Agr	104½	* † Mitchell, South Dakota
Rosenstein, Morris Gero	IndA	24	* † Chicago
Rosenthal, Sidney	IndA		* † Chicago
Ross, Dillon Lewis, Jr.	Ins		* † Council Bluffs, Iowa
Ross, Fuller Francis	Chem (SS)	65½	* † Kansas City, Missouri
Ross, George Joel	SS	12	* † Champaign
Ross, Harley Matthew	ME	42½	* † Morrison
Ross, Janet Schlanders	LAS	30	* † Oak Park
Ross, Ramona	SS		* † Sheldon
Ross, Rose Alice	SS	7	* † Jacksonville
Posser, John Oshler	EE	21	* † Crawfordsville, Indiana
Roth, Walter John, B.S., 1920	SS		* † Denver, Colorado
Rothgeb, Claude James	SS	75	* † Milford
Rothwell, Gordon Pomeroy	REE	3½	* † Detroit, Michigan
Rotramel, Everett Roy	Bus	99	* † Benton
Routh, Thomas Rex	EE (SS)	53½	* † Galesburg
Povelstead, Lloyd Melvin	Bus	60	* † Elgin
Rowatt, Paul	Accy	68	* † Cartersville
Rowland, Walter Alfred	ForC	8	* † Springfield, Ohio
Rowley, Donald Goode	Bus		* † Chicago
Roy, Beulah Constance	LAS	33½	* † Tuscola



Roy, Celia Ann	LAS	95	* † Mattoon
Roy, Sarat Kumar	LAS (SS)	77	* † Bengal, India
Roy, Waneta Marie	LAS	96	* † Mattoon
Royal, Mrs. Gertrude Hall	Mus		* † Urbana
Royal, Thomas Everette	Agr (SS)	34	* † Urbana
Rozene, Irvin William	Bus	8	* † Stewardson
Rubenstein, Joseph Gerald	Bus		* † Chicago
Ruckman, Frances Desmond	LAS (SS)	33	* † Champaign
Ruckman, Kathleen Margaret	LAS (SS)	103%	* † Champaign
Ruckrigel, Glenn Meents	Bus		* † Ashkum
Rudd, Melvin Eugene	Chem	69	* † West Chicago
Rudolph, George Albert	ChE		* † Justus, Ohio
Ruedel, Franklin John	Flor		* † Chicago
Ruedy, Robert John	REE	57½	* † Mendota
Ruf, Mary Elizabeth	LAS	33	* † East Cleveland, Ohio
Ruh, Dwight Halton	Bus	33	* † Tallula
Ruhl, Herbert Alfred	Bus	67½	* † Davenport, Iowa
Ruhle, George Cornelius Frederick	ChE (SS)	104½	* † Kankakee
Rummel, Evelyn Agnes	LAS	105½	* † Delavan
Rumming, George Edmund	LAS	12	* † East St. Louis
Rumsey, Fay Eldora	LAS	35	* † East Aurora, New York
Rumsey, Harriet Evelyn	LAS	48	* † Alton
Rupel, Edna Belle	HEAgr	40½	* † Walkerton, Indiana
Rupel, Ernest Willard	Agr		* † Walkerton, Indiana
Rupel, Isaac Walker	Agr	32	* † Walkerton, Indiana
Rush, Clara Lillian	HELAS	111½	* † Detroit
Rush, Harriet Margaret	LAS	67½	* † Detroit
Russell, Charles Chauncey	ChE	121½	* † Joliet
Russell, Clarence Callahan	Bus	58½	* † Tiskilwa
Russell, Evelyn Hastings	LAS	100½	* † Frankfort, Indiana
Russell, Helen Mary	Jnl (SS)	68½	* † Champaign
Russell, Hillard Race	Arch sp		* † Appleton, Wisconsin
Russell, Joseph William	Agr	35	* † Roberts
Russell, Justin Erving	ME		* † Chicago
Russell, Robert Lee	AC sp		* † Princeton
Russell, Ruth Edna	LAS	94	* † Kansas City, Kansas
Russell, Thelma Leota	LAS		* † Kansas City, Kansas
Russell, William Bradford	ME	93½	* † Joliet
Russell, William Joseph	Bus		* † Rockford
Rust, Louis Ernest	Agr	75½	* † Sibley
Ruth, Homer Hollis	Ath		* † Walton, Indiana
Rutherford, Harriet	LAS	97	* † Oakland
Rutherford, Richard James	ME		* † Chicago
Ruthven, Frank Charles	Bus	17½	* † Chicago
Ruzicka, Lillian Mae	CCS	62½	* † Chicago
Ryan, Alexander Boggs	FOM		* † Vincennes, Indiana
Ryan, Clarence Walter	Agr	57	* † Alton
Ryan, Florence Catherine	LAS		* † Kewanee
Ryan, Harry Lawton	SS		* † Champaign
Ryan, Lawrence Donat	LAS	26½	* † Kewanee
Ryan, Mary Jane Elizabeth	LAS		* † Kewanee
Ryan, Seth Warren	Agr (SS)	45½	* † Lincoln
Ryan, William Emmett	ME	65½	* † Chicago
Ryburn, Florence Olive	LAS	77½	* † Bloomington
Ryder, Earl	LAS	77½	* † Champaign
Ryersen, Norman Albert	EE	45½	* † Chicago
Ryneerson, Ernest Joseph	SS	7½	* † Ypsilanti, Michigan
van Ryn van Alkemade, Leendert Willum	ChE(SS)	22½	* † Chicago
Saalwaechter, Leonard Thomas	SS	6½	* † Owensboro, Kentucky
Sabel, Sidney Ralph	LawP		* † Chicago
Sabin, Albert Robbins	Agr (SS)	93	* † Chicago
Sabin, Merrill Simons	CE	36	* † Antioch
Sabo, John Philip, Jr.	Ath	63½	* † South Bend, Indiana
Sachsels, Milton Henry	LAS	59½	* † Chicago
Sackett, Edna Kathryn	Mus	14	* † Danville
Sackett, Fred Ward	ChE	96	* † Danville
Sackman, Earl William	LAS		* † Waukegan
Sadler, Glenn LaRue	Agr		* † Grove City
Sadler, Harold Frank	Bus (SS)	96	* † Grove City
Saffell, Gladys Deforest, A.B., 1917	SS	150	* † Urbana
Saffer, Rex Eugene	Jnl	54½	* † Urbana
Safford, Mary Katharine	LAS (SS)	75	* † Monmouth
Safford, Verle Willson	LawP	34	* † Washburn
Sagendorph, Arba Loren	EE	111½	* † LaGrange
Sager, Gladys Elizabeth	HELAS	64	* † Belvidere
Sager, Helen Chowning	LAS	40	* † Lockport
Saha, Aatta Paivio	ME (SS)	46½	* † Bjoerneborg, Finland
Sahud, William Harry	Jnl	101½	* † Chicago
St. Cardosi, Chris Victor	LawP (SS)	102	* † Canton
Salstrom, David Nathaniel	ME	31	* † Chicago
Salter, Marjorie Moultrie	LAS (SS)	45½	* † Chicago
Salvacion, Delfin Partilla	MedP		* † Manila, Philippine Islands
Salveson, Stella Marie	LAS	89	* † Petersburg
Salzenstein, Charles Stanley	LawP	27½	* † Peoria
Salzenstein, Lewis Charles	Bus	101½	* † Milwaukee, Wisconsin
Salzman, Max Matthews	CE	36	* † Chicago

Samkowitz, Milton Jene	Bus	12½	* † Chicago
Sammons, Lorraine Adelaide	LAS	66½	* † Huntington, New York
Sammons, William Baird	Chem	21	* † Springfield
Sample, Sam Steele	ME	39	* † Webster Groves, Missouri
Sampson, Jesse	Agr	35	* † Leland
Samuel, Dorothea	Agr	92½	* † Philadelphia, Pennsylvania
Sanslail, Alvin Mann	Bus		* † Elgin
Sanders, Azel Labon Ralph	CE	113	* † Moorehead, Minnesota
Sanders, Ethel Marie	LAS		* † Catlin
Sanders, Helen	HELAS	26	* † Champaign
Sanders, John Alfred	Bus	97½	* † LaCrosse, Wisconsin
Sanders, Paul Thomas	FOM	55	* † Champaign
Sanders, Robert Hyden	MedP		* † Effingham
Sanders, William Chapple	IndA	53	* † Ottawa
Sanderson, William Harper	CE		* † Highland Park
Sandholm, Frank Henry	Bus	63	* † Sycamore
Sanditer, Albert Baylor	SS	10½	* † Herrick
Sandstedt, Esther Marie	Mus		* † Paxton
Sandusky, Eleanor Elizabeth	HELAS	57½	* † Callin
Sandvold, Conrad Elmer	Bus	126½	* † Moorhead, Iowa
Sanford, Charles Wilson	Agr		* † Champaign
Sanford, Frances Ashby	HEAgr		* † Champaign
Sanford, Robert Stillson	MinE	53	* † Champaign
Sanke, Ruth Eugenia, A.B., 1914	Lib	33½	* † Lawrence, Kansas
Sanmann, Frank Paul	Agr (SS)	113½	* † Havana
Sanson, William Herbert	ForC (SS)	51	* † Atoka, Oklahoma
Santos, Illuminado Calupetan	ME		* † Santa Cruz, Philippine Islands
Sargent, Richard Boynton	ME		* † Indianapolis, Indiana
Sarven, James David	LAS	118½	* † St. Petersburg, Florida
Sasseman, Robert Jay	IndA	48	* † River Forest
Sassman, Howard George	Bus	63½	* † Chicago
Sato, Michio	SS	62½	* † Hiro Shinaken, Japan
Satre, Harold Peter	AE	31½	* † Sheboygan, Wisconsin
Sattley, Hope Cody	Arch	70½	* † Chicago
Saunders, William Howard	SS		* † St. Joseph, Missouri
Savage, Alice Elinor	LAS		* † Urbana
Savage, Lyman Channing	Bus		* † Oak Park
Savage, Raymond Phillips	LawP		* † Tallula
Savage, Ruth Strickland	LAS		* † Urbana
Savitzki, Sol	MinE	42½	* † Chicago
Sawyer, Harold Grimes	EE	8	* † Steelton, Pennsylvania
Sawyer, Isaac Cornelius	ChE (SS)	105	* † Springfield
Sawyer, John Wardall	IndA (SS)	40	* † Champaign
Sawyer, Philetus Thomas	Agr (SS)	97	* † Springfield
Sax, Abe Morris	ChE	90	* † Los Angeles, California
Saxe, Charles Lee	IndA	62	* † Champaign
Scaggs, Hansell Elbert	LAS	36	* † Lovington
Scanlan, Clarence Edward	Bus	68	* † Freeport
Scanlan, John Thomas	ChE	17	* † Chicago
Scanlan, Robert William	Agr	33	* † Newton
Scarritt, Elwood William	ChE	33½	* † Oak Park
Seclonge, John	ME		* † Cicero
Schable, Amelia Cecile	LAS		* † Lovington
Schad, Olivia Venn	LAS	93½	* † Indianapolis, Indiana
Schaefer, Choluta Agnes Marie	LAS		* † Chicago
Schaefer, John Victor	ChE	35	* † Chicago
Schaefer, Herbert Edward	CE		* † Tulsa, Oklahoma
Schaele, Matilde Mary	LAS sp		* † Newark, New Jersey
Schaller, Julius Leonard	ME	½	* † Mendota
Scharfenberg, Frank Alfred Elmer	Bus	69	* † Streator
Scharfenberg, Karl Julius Robert	Bus	69	* † Streator
Schaub, Frederick Weienett	LAS	67	* † Decatur
Schaub, Lisle Chester	IndA	33½	* † Chicago
Schedel, Ralph	SS	6½	* † Fairfield
Scheffer, Sophia Bertha	LAS		* † Atwood
Scheib, Donald Drake	Bus (SS)	97	* † Urbana
Scheineman, August J.	Law	56½	* † Urbana
Scheineman, Fred William	CE	88½	* † Urbana
Schenck, Ralph Edwin	Arch	114	* † Urbana
Schenck, Richard Norton	Accy	29	* † Elmwood
Schenker, Benjamin	ME	84½	* † Chicago
Scher, Arthur Weston	Ath	34	* † Benton Harbor, Michigan
Scheureman, Jean Luther	Bus	29	* † Rockford
Schickedanz, Haldean Warren	Agr	15½	* † Pontiac
Schierbaum, Edna Hulda	HEAgr	99	* † Wapello, Iowa
Schierbaum, Ethel Helen	LAS	101½	* † Wapello, Iowa
Schildge, George Willard	Bus		* † Chicago
Schilling, William Albert	Voc tsp (SS)		* † Fulls
Schummel, Herbert Eugene	Bus	62	* † Fairbault, Minnesota
Schlappizzi, Fred Henry	Bus	67½	* † St. Louis, Missouri
Schlesinger, David	ChE	105	* † Chicago
Schlossbauer, William John	Bus	4	* † Chicago
Schluter, Harold John	IndA	65	* † Moline
Schlutius, George William	AE	74½	* † St. Louis, Missouri
Schmalhausen, Josephine Catherine	LAS		* † Champaign
Schmeltzer, Mrs. Pauline Kennedy	Mus		* † Champaign

Schmidt, Adolf	Bus		* † Chicago
Schmidt, Albert Rudolph	LAS		* † Palatine
Schmidt, Herman John	EE		* † Dundee
Schmidt, Minnie Mae	LAS	19	* † Wilmette
Schmidt, Richard Wagner	CE	89	* † Chicago
Schmitt, Bert Wendell	ChE		* † Mt. Vernon
Schmitt, Carroll Peter	EE	32	* † Warsaw
Schmitt, Elsa	Jnl	27	* † St. Louis, Missouri
Schmoeller, Arthur William	Accy	102½	* † Alton
Schneider, Evelyn Julia, A.B., 1918	SS	15	* † Louisville, Kentucky
Schneider, William Bal	LAS	32	* † Waterloo
Schneider, William Paul	Bus		* † Chicago
Schnellbacher, Elmo Emil	LAS	34	* † Quincy
Schock, William Vierling	Agr	107	* † Albion
Schoeffler, Henry John	Bus	34	* † Alton
Schoenbrod, Leslie Klawans	Bus		* † Chicago
Schoening, Earl Frederick	CE&L	102	* † Chicago
Schoening, Louis Karl	Bus	6	* † Columbia
Schoenthaler, Alma Carolyn	Bus		* † St. Louis, Missouri
Scholfeld, John Dixon	Accy	36	* † Marshall
Scholz, Jessie Pauline	LAS	102½	* † Chicago
Scholz, Richard Ferdinand	ChE		* † Quincy
Schooley, Clarence Herschel	Bus	70	* † Effingham
Schoonmaker, Edward P	Arch		* † Chicago
Schott, John Theodore	EE	138½	* † Quincy
Schott, Russell Howard	SS	8½	* † Belleville
Schouten, John Henry	SS		* † Holland, Michigan
Schrader, Dayton Oscar, A.B., 1920	SS	132½	* † Bridgeport
Schrader, Frances Emma	Mus	56	* † Clifton
Schrader, Frederic Porter	CE	68	* † Clifton
Schrieber, Charles Arthur	Bus		* † Chicago
Schrieber, Edwin Henry, A.B., 1920	SS	137	* † St. Louis, Missouri
Schrepfer, Frank Andrew	Voc vs p	23½	* † Chicago
Schriner, Ernest Merle	Agr	62	* † Elgin
Schrock, Clayton Bazel	ME	42	* † Chatsworth
Schroeder, Bernard Anthony Edward	ME	36	* † Wilmette
Schroeder, Fred C	Voc vs p		* † Shumway
Schroeder, Frieda Louise	LAS	31	* † Chicago
Schroeder, George Chriss	CE		* † Chicago
Schroeder, Lucile Kathleen	LAS	64	* † Geneseo
Schroeder, Orville Henry	ME	4½	* † Minier
Schroeder, Ralph Minson	CE	71	* † Decatur
Schroeder, William Christopher	Accy	35	* † Lansing
Schropp, Glen George	SS	5½	* † Sandusky, Ohio
Schuessler, Leona Margaret	LAS		* † Joliet
Schujahn, Irene Katherine Marie	LAS	77½	* † Champaign
Schuldt, Elmer Frederick	ChE	32	* † Chicago
Schuler, George Louis	ME	66	* † Dixon
Schulte, Charles Herman	Agr	35	* † Havana
Schultz, Clarence John	ForC	101½	* † Chicago
Schultz, Frank Arthur	ME	36	* † Bloomington
Schultz, Harry Ralph	Bus		* † Chicago
Schultz, Mary Louise	LAS (SS)	15	* † Monticello
Schulz, Dorothy Sophia Hendricks	LAS		* † Urbana
Schulz, Myrtle	Jnl	34	* † Riverside
Schulze, Ella Rosell	LAS	56½	* † Pinckneyville
Schulze, Emory Martin	LAS		* † Kankakee
Schumacher, Mrs. Myrtle W	LAS sp		* † Decatur
Shunk, Leo Napoleon	SS		* † Marquette, Michigan
Schumacher, Norman Hopkins	Bus		* † Highland
Schutt, Walter William	LG	92½	* † Barrington
Schwalbe, Mrs. Isabelle Sanderson	LAS (SS)	119	* † Urbana
Schwartz, Frank Paul	Accy (SS)	94½	* † Champaign
Schwartz, Mrs. Frank Paul	SS	3	* † Champaign
Schwarzman, Ross David	Bus (SS)	17	* † Normal
Schwarzwalder, Clarence Frank	AE	40	* † Elgin
Schweitzer, Edward Charles, Jr.	IndA	67½	* † Chicago
Schwemm, Earl Meyer	Bus		* † Barrington
Schwenck, James Edward	Accy		* † Champaign
Schwenk, Elwood Edgar	AE	62½	* † Rock Falls
Scofield, Eugene O'Donnell	Bus sp		* † Chicago
Sconce, Frances Emily	LAS	119½	* † Sidell
Sconce, Phil Sheridan	Agr	25	* † Danville
Scott, Charles Earl	Chem		* † St. Louis, Missouri
Scott, Eleanor Elizabeth	LAS		* † Champaign
Scott, Estella Bertha	SS	8	* † New Orleans, Louisiana
Scott, Eugene Willis	Bus	50½	* † Monmouth
Scott, Fannie May	LAS		* † East Toledo, Ohio
Scott, Floy Avis	SS	7	* † Rock Falls
Scott, Frances Edwina	LAS	70	* † Berryville, Arkansas
Scott, James Harvey	Bus		* † Peoria
Scott, James Robert	ME		* † Champaign
Scott, John Quinton	Agr	59½	* † Wapella
Scott, Marvin Joseph	CE&L	64½	* † Grayville
Scott, Mary Stanhope, A.B., 1920	SS	130	* † Lampasas, Texas
Scott, Mary Beth	LAS		* † Morrisouville

Scott, Orval Glen	Bus	24	* † Champaign
Scott, Russell	MinE	36	* † Evanston
Scott, Sidney Glenn, B.S., 1920	SS	130	* † Champaign
Scott, Thelma Elizabeth	LAS	32	* † Indianapolis, Indiana
Scott, Wellington Whitaker	Bus	76	* † Grundy Center, Iowa
Scranton, Laurell Lacey	Agr	76½	* † Charleston
Scudder, Van William	Bus		* † Aurora
Seabury, Claire Clifford	ChE		* † Chicago
Seaman, John Thomas	EE		* † Chicago
Seaman, Robert William	Jnl		* † Kansas City, Missouri
Sears, Burton Hale	Bus		* † Oak Park
Sears, Margaret Denton	LG	67	* † Urbana
Sears, Ogden John	LAS		* † Naples
Seaton, Irene	Jnl	94	* † Quincy
Seburn, Thomas James	ME		* † Toledo, Ohio
Seckinger, Gwynne Snowden	Bus		* † Granville
Secor, Ina	LAS	60	* † Carrollton
Secrest, Jack	Bus sp	8	* † Crossville
Sedgwick, Edward Livingston	Bus	23	* † Peoria
Seeber, Earl Eugene	Agr		* † Benton
Seed, Verl Rue	C&L	35	* † Urbana
Seehausen, Paul, B.S., 1920	SS	130½	* † Chebanse
Seekamp, Arthur William	Bus		* † Chicago
Seelig, Lester	ME (SS)	62½	* † Chicago
Seelye, Katharine Elizabeth	Mus sp	4	* † Washington, D. C.
Sehnert, Walter Ellis	Bus	37	* † Chicago
Seibert, Hallette Margaret	Mus	19	* † Ashley
Seibert, Walter Williamson	LAS		* † Ashley
Seidenbecker, Fred Swinford	ForC	23	* † Hammond, Indiana
Seidensticker, William Joseph	ChE		* † Oak Park
Seiler, Rex Hanna	Bus	46	* † Pana
Seitz, Charles Frederick, Jr.	Bus	54½	* † Chicago
Selleck, John Hilton	Ath	29	* † Onawa, Iowa
Sellon, Roland Henry	Bus		* † Galva
Selvidge, Harley Everman	SS	5½	* † Champaign
Semple, Joseph Alexander	ME	8	* † Dawson
Sen, Chi Ming	ME	46½	* † Anhwei, China
Sender, Frank Robert	MedP		* † Chicago
Senft, Emily Alleen	Bus		* † Berwyn
Seng, Francis Arthur	Bus		* † Wilmette
Senn, Erwin Oliver	Chem	39	* † Highland
Senteney, Joseph Bouck	Agr		* † Arcola
Seright, Mary	LAS	60	* † Chatsworth
Sethi, Jogat Ram	ChE		* † Rawal Pindi, India
Setinsky, Jerry Henry	CE	25½	* † Onarga
Severance, Deane Carlisle	LAS		* † Milwaukee, Wisconsin
Severson, Gilbert Sims	Chem	59	* † Champaign
Sevilla, Diego Aguilar	EE	68	* † San Isidro, Philippine Islands
Seward, John Harold	Agr		* † Raymond
Sexauer, Esther Marie	LAS	33	* † Belvidere
Seymour, Bliss Alberta	LAS	99	* † Hillsboro
Seymour, Burleigh Beaumont	MinE	96	* † Benton
Seymour, Harold Edward	AC		* † Castile, New York
Seymour, Robert John	CE		* † Chicago
Seymour, Russell	AE	79½	* † Oakwood
Shackell, Winnifred	LAS	45	* † Omaha, Nebraska
Shacklette, Eva May	HEAgr sp		* † Washington, D. C.
Shaddle, Lee Norton	Agr	91	* † Area
Shade, Claude Cloide, B.S., 1920	SS	151½	* † Urbana
Shadko, Basil Andreivitch	Agr		* † Alma, Michigan
Shaffer, Gertrude Violet	LAS		* † Maywood
Shah, Champakal Chunilal	Chem		* † Kathiawa, India
Shand, Edwin William	ChE	60	* † Riverside
Shaner, Herbert Jewel	ME		* † Galva
Shanks, Thomas Kennedy	CE		* † Chicago
Shannon, George Albert	SS	13½	* † Clay City
Shapley, Ralph Peterson	SS	124	* † Denver, Colorado
Shapiro, Leo	EE	67	* † Chicago
Shapiro, Sam	Bus	25½	* † Chicago
Shapiro, Sam Oliver	Jnl	37½	* † Chicago
Shapotken, William	ME	13½	* † Chicago
Sharma, Shadram	EE		* † Punjab, India
Sharp, Abia Morris	Bus	34	* † Harrisonville, Missouri
Sharp, Elizabeth Josephine	Bus	44½	* † Harrisonville, Missouri
Sharp, Henry Cordes	IndA	55½	* † Oak Park
Sharp, Mary Marguerite	LAS	28	* † Harrisonville, Missouri
Sharp, Mildred	SS	64	* † Mattoon
Sharp, Wayne Francis	LAS		* † Mendota
Sharp, Webster Harrison	Bus		* † Woodward, Oklahoma
Sharpe, Byron C	EE	35	* † Chicago
Shartle, Thomas Irving, Jr.	Bus	31	* † Berwyn
Shattuck, Richard Kenneth	ForC	13	* † Oak Park
Shaver, Dwight Wendell	Arch	23	* † Gibson City
Shaver, Theron Maxton	EE	100	* † Marcelles
Shaw, Benjamin Thomas	EE	66	* † Dixon
Shaw, Edith	Ed		* † Marshall

Shaw, Mrs. Ella May	SS	4	Champaign
Shaw, Harry Evans	Bus		* † Harrisburg
Shaw, Howard Chase	IndA	54½	† River Forest
Shaw, Robert Eustace	LAS	15½	† Dixon
Shaw, Virginia	LAS		* † Marshall
Shawhan, Edwin Lawrence	SS	20½	† Maywood
Shawl, Ray Iris, B.S., M.S., 1916, 1919	Agr irr		* † Princeton
Shay, Lester Roy	Agr	30	* † Pontiac
Shedden, Russell Norton	LAS	38½	* † Elgin
Shee, Parke Lawton	CE		* † Oak Park
Sheehy, Lawrence Walter	ME	29½	* † Chicago
Sheets, Edward Bernard	LAS	41½	* † Champaign
Sheffler, Charles Erven	EE	2½	* † Smitz City, Indiana
Sheldon, Francis Hosmer	Agr		* † Sharpsburg
Sheller, Charles Henry	Bus	42½	* † North Manchester, Indiana
Shelp, Harold Jay	ChE	41	* † Medina, New York
Shemick, Earle Ervin	EE	8	* † Wallace, Michigan
Shenard, Eva Lucille	Jnl	84	* † Roachdale, Indiana
Shepard, John Thomas	Bus	8	* † Danville
Shepard, Marjorie	HELAS	91	* † Chicago
Shepard, Ray Arthur	SS		* † Gardiner, Maine
Shepherd, Julian Gordon	ME		* † Oak Park
Sheppard, Paul Richard, A.B., 1920	SS	130	† Eaton, Colorado
Sherertz, Everett Lorren	CE	61½	* † Marion
Sherlaw, Fleming Murray	Agr (SS)	119½	* † Chicago
Sherlaw, Mrs. Grace Edith	HEAgr sp	16	* † Chicago
Shermak, Albert	Law	11½	* † Chicago
Sherman, Gerald Wilfred	ME		* † Chicago
Sherman, Jean	SS	6½	† Sandoval
Shewhart, Harry Anthony	Jnl	63½	* † New Canton
Shields, Hazel Isabelle	Mus		* † Casey
Shimer, George Henry	CerE	42½	* † Decatur
Shipley, Wendell Watson	ME	37	* † Martinsville, Indiana
Shipp, Jesse Allen	Agr (SS)	27	* † Carlinville
Shirley, Blanche Gertrude	Jnl (SS)	95½	* † Benton
Shirley, Helen Frances	LAS	41½	* † Elgin
Shirley, Ruth	LAS	66	* † Paris
Shively, Margaret	LAS	97	* † Knoxville
Shoemaker, Fred Raphael	ME	41	* † Jacksonville
Shols, William Theodore	EE (SS)	35½	* † Chatsworth
Shonkwiler, Alice	LAS	26¾	* † Winamac, Indiana
Shonkwiler, James Leslie	Bus	24	* † Raub, Indiana
Shonkwiler, Robert Payson	Law		* † Monticello
Shonts, Florence Olive	HELAS		* † Rock Falls
Shoop, Arnold Chaney	Bus	78½	* † Champaign
Shoop, Edwin Perrill	IndA	32	* † Champaign
Shoot, Tilford Taylor	Agr sp	26	* † Charleston
Shopen, Kenneth George	Arch		* † Elgin
Shore, Emma Pearl	SS	17½	† Chandlerville
Short, George William	ME	25	* † Granite City
Short, James Franklin	ForC	60	* † Alton
Short, Robert Alexander	Bus		* † Rockford
Shortess, Lois Fuller	SS	8	† Charleston
Shoup, Blanche Marie	SS	9½	† Carthage
Showalter, Arthur Jennings Bryan	LAS sp		* † Pekin
Showalter, Mary Agnes	LAS	61½	* † Danville, Indiana
Showerman, Irving Edward	Bus	8	* † Niles, Michigan
Shriber, William Fountain	Voc vs p		* † Lewistown
Shuey, Audrey Mary	LAS	78½	* † Charleston
Shulhafer, Richard Clare	Bus	22	* † Champaign
Shultz, Helen Maude	HELAS	65	* † Shipman
Shumaker, Gertrude Marguerite	Agr	21	* † Butler, Indiana
Shuman, Frank Hamilton	Agr (SS)	88½	* † El Paso
Shumate, Kenneth Wilson	ME	32	* † Quincy
Shurtz, William Gooding	MedP	57	* † Hawarden, Canada
Shutt, Adra Lilyan	Mus	58	* † Champaign
Shuttleworth, Parnell Quincy	Bus	27	* † Idaho Falls, Idaho
Shutts, Frances	LAS	55½	* † Danville
Shutts, Glenn Bush	EE	8	† Joliet
Siberz, Lewis Alfred	AE		† Barabos, Wisconsin
Sibley, Elba	Voc vs p		* † Kampsville
Sickles, Trent D	Bus	99½	* † Petoskey, Michigan
Sickman, Florence Anne	Mus (SS)	64	* † Lynchburg, Virginia
Sideman, Abner	Bus	30	* † Chicago
Sie, Hsuinchee H	LAS	118	* † Anluhr, China
Siebel, Frederick Peter, Jr.	ChE	36	* † Chicago
Siecke, Kurt Hugo	CE	135½	* † Urbana
Siegel, Myra	LAS		* † Chicago
Siebert, Bessie	Bus		* † Grayville
Siegrist, Louis Arnold	Chem	105½	* † Highland
Siemens, George Mellin, Jr.	Bus	67½	* † Kansas City, Missouri
Sigler, Lenore	LAS	33	* † Decatur
Signell, Lloyd George	CE	36	* † Rockford
Sikes, John McCarty	LawP	4	* † Grays Lake
Silberman, Saul Ayman	ChE	29	* † Chicago
Silsby, Robert Donald	Chem	36	* † Wilkinsburg, Pennsylvania

Silva, Albert Lopes	<i>Agr sp</i>		* † New York, New York
Silva, Jacintho Lopes	<i>Agr sp</i>		† New York, New York
Silverman, Earl Dave	<i>Bus</i>	11	* † Chicago
Simer, Edna	<i>SS</i>	8	† Salem
Simmon, Allen Ambrose	<i>Bus</i>	805/6	* † Moline
Simmons, William Harold	<i>Bus</i>	28	* † Jerseyville
Simms, Ellvine Inistore	<i>HEAgr</i>	98 1/2	* † Emelle, Alabama
Simms, William Amos	<i>MedP</i>		* † St. Joseph, Missouri
Simon, Arthur Charles	<i>ChE</i>	33	* † St. Louis, Missouri
Simon, Philip Jerome	<i>IndA</i>	70 1/2	* † Chicago
Simons, Glen Lyle	<i>ME</i>		* † Sparta, Michigan
Simons, Lewis Eugene	<i>Bus</i>	63 1/2	* † Chicago
Simonson, Raymond William	<i>ForC</i>	33 1/2	* † Chicago
Simonson, Susie	<i>SS</i>	8	* † Smithshire
Simpson, Henry Mechem	<i>Bank</i>	8	* † Springfield
Simpson, Lawrance Packer, A.B., 1920	<i>Law (SS)</i>	23	* † Chicago
Simpson, Merrill Willis	<i>Bus</i>	51 1/2	* † Rockford
Simpson, Ralph John	<i>EE</i>		* † Benton
Simpson, Roy Leon	<i>Bus</i>	8	* † Taylorville
Sims, Lillie La Rue	<i>Ed</i>	98	* † Irving
Sincox, William John	<i>Bus</i>	26 1/2	* † Warren
Sinden, Alfred De Los	<i>ME</i>	107	* † Canyon City, Colorado
Sinden, Edward Archibald	<i>Bus</i>	31	* † Oak Park
Sindt, Arno Albert	<i>Arch</i>		* † Davenport, Iowa
Singer, Raymond Barker	<i>AC</i>	32 1/2	* † Urbana
Singer, Robert S	<i>Bus</i>		* † Champaign
Singmaster, Helen Mary	<i>LAS</i>		* † Keota, Iowa
Sinn, Regina Sophia	<i>LAS</i>	32	* † Kewanee
Sipple, William Reginald	<i>CE</i>		* † Pekin
Sissons, Frances	<i>Agr</i>	32	* † Modesto
Six, Harvey Presley	<i>Agr</i>	5	* † Broadlands
Skelton, Neva	<i>SS</i>	9	* † Eldorado
Skemp, Edith Elizabeth	<i>LAS</i>	71	* † Maywood
Skidmore, James Edward	<i>Agr</i>	61	* † Chicago
Skiles, Earl William	<i>Bus</i>	63 1/2	* † Grayville
Skinner, James Madden	<i>CE</i>	64	* † Joliet
Skinner, Melvin Benjamin	<i>IndA(SS)</i>	143 1/6	* † Chicago
Skinner, Otis Charles	<i>Bus</i>		* † Clinton
Shirow, Jack	<i>CE(SS)</i>	71 1/2	* † Chicago
Skogland, Herbert LeRoy	<i>LG</i>	115	* † Red Wing, Minnesota
Slack, Clara Mary	<i>LAS</i>	20	* † Spring Valley
Slagle, David Carlton	<i>LAS</i>	77 1/2	* † Chicago
Slater, George Wilson	<i>ME</i>	12	* † Hinsdale
Slater, Ralph Gardner	<i>Agr</i>	67	* † Champaign
Slatten, Margaret Edith	<i>HEAgr</i>	104	* † Taylorville
Slaughter, Harvey Leroy	<i>Bus</i>	60	* † Denver, Colorado
Slaymaker, Harry Scott	<i>Ath</i>	25 3/4	* † Kansas City, Missouri
Sleadd, Agnes	<i>SS</i>	5 1/2	* † Shelbyville, Kentucky
Slepyan, Dorothea Sara	<i>Bus</i>	30	* † Chicago
Slepyan, Milton Hirsh	<i>Bus</i>		* † Chicago
Sloan, Arthur William	<i>Chem</i>	68	* † Urbana
Sloan, Howard Parks	<i>MedP</i>	17	* † Bloomington
Slocum, Delfern	<i>HELAS</i>		* † Mishawaka, Indiana
Small, Dee	<i>Agr</i>	99	* † Galatia
Small, John Clifford	<i>Agr</i>	34	* † Galatia
Smalley, Agnes Esther	<i>LAS</i>	60	* † Carlinville
Smallwood, Glenn S	<i>EE</i>	41	* † Decatur
Smejkal, Helen Bessie	<i>LAS</i>		* † Chicago
Smejkal, Richard Edward	<i>CE (SS)</i>	86 1/2	* † Chicago
Smiley, James Harold	<i>LAS</i>		* † Rockville, Indiana
Smith, Agnes Robertson	<i>SS</i>	12 1/2	* † Springfield
Smith, Alfred Andrew	<i>Bus</i>	36 1/2	† Chicago
Smith, Alice Amanda	<i>LAS</i>		* † Champaign
Smith, Ambrose Everett Carroll	<i>SS</i>	37	* † Atlanta, Georgia
Smith, B Howard, Jr., A.B., 1920	<i>SS</i>	130 1/2	* † Champaign
Smith, Bryan Waldo	<i>Agr sp</i>	30	* † Freeburg
Smith, Carey Bentley	<i>Agr</i>		* † Oblong
Smith, Cecil Maxey	<i>Law</i>		* † East St. Louis
Smith, Cecil Ray	<i>Law</i>		* † Marion
Smith, Charles Campbell	<i>LAS</i>	60	* † Decatur
Smith, Charles Cobb	<i>EE</i>	94 1/2	* † Chicago
Smith, Charles David	<i>Agr</i>	24	* † Indianapolis, Indiana
Smith, Charles Raimor	<i>SS</i>	101 1/2	* † Georgetown
Smith, Clarence Theorn	<i>IndA</i>		* † Urbana
Smith, Clyde Everett	<i>CE</i>	103 1/2	* † Kansas City, Missouri
Smith, Curtiss Rosencrans	<i>Bus</i>	47	* † Sioux City, Iowa
Smith, Daniel Willard	<i>LAS</i>	98	* † Bellflower
Smith, David Galbraith	<i>Agr</i>	345/6	* † Carthage
Smith, Denzil M	<i>Voc us p (SS)</i>	25	* † Parnuee
Smith, Dorothy Atwood	<i>LAS</i>	17	* † Urbana
Smith, Dorothy Margaret	<i>LAS</i>	66	* † Champaign
Smith, Dudley Galusha	<i>Agr</i>	33	* † Peoria
Smith, E Millard	<i>CE</i>	36	* † Chicago
Smith, Earl David Marion	<i>MedP</i>		* † Hoopeson
Smith, Earl Gates	<i>Bus</i>		* † Alden
Smith, Edmund Joseph	<i>SS</i>	144%	* † Chicago

Smith, Eleanor	LAS	68½	* † Chicago
Smith, Elmon Leo	Bus	16½	* † Mattoon
Smith, Eloise	LAS	40	* † Urbana
Smith, Elsie Webb	LAS	57½	* † Benton
Smith, Emily Evelyn	HEAgr (SS)	102½	* † Urbana
Smith, Emma Charlotte	LAS		* † Metropolis
Smith, Eugene Frederick	Bus	34	* † Chicago
Smith, Eugene Russell	CE	63	* † Carbondale
Smith, Evaughn Hope	LAS	56	* † Otterbein, Indiana
Smith, Everett William	CE	55½	* † Genesea
Smith, Fred Ernest	Chem (SS)	49	* † Urbana
Smith, George Andrew	Bus	13½	* † Lafayette, Indiana
Smith, George Edward	Agr	113	* † East Lynn
Smith, George Ivan	Bus sp		* † Kankakee
Smith, Gilbert Lee	MinE	8	* † Urbana
Smith, Harry Lewis	LAS	8	* † Champaign
Smith, Howard Hill	EE	9	* † Evanston
Smith, Howard Louis	Bus	32	* † Pekin
Smith, Howard Vernon	Agr	33	* † Urbana
Smith, Howard William	ME		* † Chicago
Smith, Ione Margaret	LAS	102½	* † Los Angeles, California
Smith, James Barton	LAS	29	* † Champaign
Smith, James Remington	Chem		* † Omaha, Nebraska
Smith, Jay Charles	Agr	48½	* † Weston
Smith, Jennie Marie	SS	90½	* † Benton
Smith, John Aaron	SS	12	* † Troy
Smith, John Milton	Bus	8	* † St. Louis, Missouri
Smith, John Wesley	EE		* † LeRoy
Smith, Julian Denton	Flor	108	* † Far Rockaway, New York
Smith, Kenneth Leslie	AE	36	* † Aurora, Indiana
Smith, Laura Eleanor	LAS	96	* † Urbana
Smith, Laurence Thornton	ME		* † Aurora
Smith, Lawrence De Vere	Bus	53½	* † Milford
Smith, Leslie Denzil	ME	21	* † Oakwood
Smith, Lloyd Lorenzo	RME	77	* † McComb, Mississippi
Smith, Mrs. Margaret Morris	LAS (SS)	65	* † Urbana
Smith, Marian Esther	LAS	56½	* † Champaign
Smith, Marian Kathryn	LG	119½	* † Monticello
Smith, Marion Louise, A.B., 1920	SS	132½	* † DuQuoin
Smith, Marjorie Lois	Bank	60	* † Kanioul
Smith, Mary Eloise	HELAS	40	* † Mattoon
Smith, Maybelle Pritchard	LAS	69	* † Dixon
Smith, Morris Horatio	Bus	38¾	* † West Lafayette, Indiana
Smith, Niles Bainbridge	ME	87½	* † Birmingham, Alabama
Smith, Mrs. Nina	SS	6	* † Mt. Sterling
Smith, Olive Louise	LAS	35	* † Yorkville
Smith, Oliver Francis	Agr	96	* † Broadlands
Smith, Ora	Agr	33	* † Freeburg
Smith, Orion Otis	SS	71	* † Oakwood
Smith, Orloff Elmer	Bus	114¾	* † Urbana
Smith, Oscar Byron	Agr	30	* † Broadlands
Smith, Oscar Pearce	LAS	28	* † Greenville
Smith, Oscar Roy	EE	43	* † Urbana
Smith, Peyton W	AE	72	* † Oklahoma City, Oklahoma
Smith, Robert Alfred	Agr		* † Ashmore
Smith, Robert Harlie	MedP		* † Clay City
Smith, Roland Holmes	CerE		* † East Chicago, Indiana
Smith, Roland Wesley	Bus	13½	* † Chicago
Smith, Russell Wilson	LAS		* † Laplata, New Mexico
Smith, Ruth Harriet	Bus	64½	* † Amboy
Smith, Steadman Garretson	Law	30	* † Chicago
Smith, Stuyvesant Chatteris	IndA	68	* † Evanston
Smith, Theodore Hammond	MedP	105	* † Godfrey
Smith, Thurston Woods	Bank	66½	* † Albion
Smith, Walter Edward	CerE	30	* † Joliet
Smith, Walter Thomas	Jnl	25½	* † Oakwood
Smith, William Franklin	ME	31	* † Denver, Colorado
Smith, William Kenneth	Agr		* † Urbana
Smith, William Thomas	LAS		* † Woodlawn
Smith, William Thompson, Jr.	ChE		* † St. Louis, Missouri
Smithers, Wilson Cook	ME	42	* † Wilmette
Smithson, Lucile Isabel	LAS		* † Winchester
Smolowich, Edward	Agr	35	* † Chicago
Smoot, Paul Le Roy	Arch		* † Call'n
Smothers, Charles Washington	MedP		* † Mt Meigs, Alabama
Smouse, Clark J	Bus	33	* † Morrison
Smysor, John Leland	Agr	70	* † Windsor
Snell, Gertrude Margaret	LAS	64½	* † Oak Park
Snell, Myron Alonzo	Chem	72½	* † Oak Park
Snider, Helen Dorothy	LAS (SS)	14½	* † Champaign
Snider, Weems Vinton	SS	5	* † Holdenville, Oklahoma
Snively, Clifford Herold	Bus (SS)	88½	* † Freeport
Snively, John Rowe	Law	7½	* † Lanark
Snoddy, Sherman Cummings	Bus	13	* † Redmon
Snodgrass, Glenn Ralph	Ath	8	* † Mannington, West Virginia
Snodgrass, Harry William	Agr		* † Geneseo

Snodgrass, Mary Helena	Bus		* † Camaguey, Cuba
Snook, Harry Guilford	EE	105%	* † Chicago Heights
Snow, Beatrice Nordica, A.B., 1920	SS	130½	* † Chicago
Snyder, Carl Huston	Bus	25	* † Neoga
Snyder, Donald Ayres	IndA		* † Mt. Pulaski
Snyder, Harry William	EE	119	* † Alton
Snyder, Mabel Ruth	Bus (SS)		* † Neoga
Snyder, Willard Ayres	Arch	96½	* † Mt. Pulaski
Soderberg, Victor Lionel	ChE	44	* † Chicago
Sogolow, Morris Harris	Ath		* † Omaha, Nebraska
Solov, Hyman	Agr	27½	* † Bayonne, New Jersey
Somers, Alfred Patrick	MedP		* † Kankakee
Somers, Francis Martin	ME	57½	* † Champaign
Somers, Francis Patrick	SS	129	* † Kankakee
Somers, Helen Frances	HELAS	43½	* † Urbana
Somers, Lee Adrian	Voc tsp		* † Urbana
Somers, William Frank	ME	24	* † Rockford
Sommer, Paul Nathaniel	Bus		* † Farmer City
Sommers, Byron Scott	Bus		* † Chicago
Sorenson, Marie Nelsena	HELAS	42½	* † Savanna
Sortor, Ralph Frederic	CE	51	* † Kansas City, Kansas
Sostrin, Morris	LawP		* † Maywood
Soukup, Roy	ChE		* † Chicago
Soule, John Edward	CE	65½	* † Chicago
Southard, Edward Oliver	Bus	79	* † Elgin
Souza, Paulo Cuba	Agr	190%	* † Sao Paulo, Brazil
Sowers, Herbert Taggart	LAS (SS)	67½	* † Sreator
Sowers, Mildred Lucille	LAS	105	* † Petersburg
Sowers, Nelson Everett	EE	111½	* † Greenville, Mississippi
Spangler, Rodney Eugene	Arch	63	* † Amboy
Sparberg, Max Shane	LAS		* † Chicago
Sparks, Melvin Earl	MinE		* † Urbana
Spaulding, Clarence B	Agr		* † Pana
Speakman, John William	LAS	40½	* † Danville
Spear, Samuel Horace	Bus		* † Chicago
Spears, Paul Jones	MinE		* † Terre Haute, Indiana
Speer, James Harrel	SS	7½	* † Winston-Salem, N. Carolina
Speers, Duane Collins	CE	4	* † Pontiac
Spelman, Archibald Edwards	LAS	23	* † Olney
Spence, William Kenneth	ME	66½	* † Chicago
Spencer, Alvin Cheshire	Bus	60½	* † Magnolia
Spencer, Charles Samuel	Chem	51½	* † Champaign
Spencer, Egbert Gerald	CE	32	* † Lanark
Spencer, Grace Greenwood	ChE	81	* † Payson
Spencer, Walter William	SS	8	* † Magnolia
Sperry, Clarence Edgar	RME	31	* † Alton
Sperry, Dean Elizabeth	Accy		* † Peoria
Spicer, Ralph Faraday	AE	65½	* † Joliet
Spiker, Fern Marie	HELAS(SS)	104½	* † Bushnell
Spilver, George Searles	Chem	68½	* † Chicago
Spinner, Bertram George	IndA		* † Chicago
Spira, Leo	Chem	71½	* † Chicago
Spoerer, George Richard	Chem	22	* † Chicago
Sponsler, Gertrude	LAS	94	* † Hutchinson, Kansas
Sporer, Edward Allen	Bus		* † Waukegan
Sprague, Alice Cornelia	HEAgr	60½	* † Lockport
Sprague, Fulford Howe	ForC	43	* † Sheffield
Sprague, John Wilbur	Agr	32	* † Hull
Springer, Delmar Everett	ME		* † Danvers
Springer, Robert Lynn	AE		* † Parsons, Kansas
Sprong, Russell	SS		* † Des Moines, Iowa
Spruit, Waldo M	SS		* † Jacksonville
Spurgin, Margaretha Katherine	Arch	18	* † Ottawa
Spurlock, William Roy	IndA		* † Huntingburg, Indiana
Spute, Glenn Palmer	LAS	19	* † DePue
Squier, Arthur August	ME	66	* † Rockford
Strout, Hester Dorothy	HELAS	34	* † Pontiac
Stachel, Edward Henry	EE	41	* † Glencoe
Stadnichenko, Marie Maxine	LAS sp		* † Vladivostok, Russia
Staehle, Ida Marie	LAS	33	* † Urbana
Stafford, Harold King	ForC	30	* † Alton
Staggs, Alva R	SS		* † Walton, Indiana
Stahl, Archie Edward	EE	35	* † Alton
Stahl, Cecil Norman	ForC	66½	* † Alton
Stahl, Francis Ervin	Bus		* † Worthington, Indiana
Stahl, William Frederick	EE		* † Evanston
Staley, Elmer George	ME	109½	* † LeRoy
Stallings, Eugene Michener, B.S., 1920	SS	136	* † Danville
Stallings, Mrs. Katherine Doris	SS	58	* † Danville
Stambaugh, George Vivian	SS	12½	* † Hereford, Texas
Stamberg, Frank Ford	MinE	115	* † Chicago
Stanberry, Malora Mae	HEAgr	55	* † Charleston
Stanford, Clark Franklin	Agr		* † Forrest
Stanford, Mabel Julia	HEAgr	66½	* † Forrest
Stanford, Ralph Fletcher	EE (SS)	65½	* † Loda
Stanley, Ethel Marguerite, A.B., 1913	HEAgr irr	163½	* † Chula Vista, California



Stanley, Katherine Kemp	HELAS		* † Urbana
Stanley, Paul McClean	Agr		* † Urbana
Stannard, Ely Martin	SS	8	* † Purdue, Missouri
Stark, Bertha May	SS		* † Tampa, Florida
Stark, Julian Howard	EE	36	* † Hume
Stark, Max William	ForC	51	* † Hume
Starke, William Charles	Agr sp		* † Joostenberg, South Africa
Starkes, Reuben Payne	Jnl	60½	* † Metropolis
Starr, Charles William	RME	4	* † Decatur
Starr, Elva Elizabeth	LAS	30	* † Anderson, Indiana
Starr, Sidney Keller	Agr	111	* † Belvidere
Stateler, Ozell Trask	Agr	114½	* † Varna
Stauder, Oscar Francis	ME	118½	* † Chicago
Stead, George Albert	LAS		* † Lumsden, Canada
Stearn, Joseph Bertram	Bus		* † Chicago
Stearns, Torrey Benjamin	LAS		* † Chicago
Steckbauer, Clifford Earle	MedP(SS)	31½	* † Chicago
Steel, Paul Carlyle	C&L		* † Chagrin Falls, Ohio
Steel, Rowe	LawP	35	* † Urbana
Steele, Althea Rose	HELAS	132	* † Havana
Stefanides, Victor	MinE		* † Trestena, Hungary
Stefanoff, Nenko	RME	29	* † Champaign
Stege, George Richard, Jr.	Chem	77½	* † Chicago
Stegenga, Gladys	Mus (SS)	67½	* † Thornton
Stein, Adam Edward	Bus	14½	* † Sibley
Stein, Clarence Cornelius	MedP sp		* † Cisne
Stein, Joseph	Accy		* † Chicago
Stein, Herman William	CE	76½	* † Chicago
Steinberg, Naomi Annette	Mus	32	* † Chicago
Steiner, Helen Elizabeth	LAS	27½	* † Morrison
Steiner, Jeannie Verle, A.B., 1920	SS	139½	* † Morrison
Steinert, Hildur Edith	LAS	101½	* † Chicago Heights
Steinert, Lars Eric Theodore	LAS	33	* † Chicago Heights
Steingraber, Fred Carl	Bus	21	* † Dallas City
Steinhauser, William August	AE	91	* † Berwyn
Steineman, Clarence Joseph	IndA	30	* † St. Louis, Missouri
Steinmetz, John Armand	Bus	75½	* † Pekin
Steinwedell, William	IndA	25	* † Cleveland, Ohio
Stemwell, William	CE	40½	* † Maywood
Stenicka, Charles Edward, Jr.	EE		* † Omaha, Nebraska
Stepan, Oliver	AE		* † Cedar Rapids, Ohio
Stephan, Frederick Franklin	EE		* † Oak Park
Stephens, Lewis	Ath	12½	* † Industry
Stephens, William Theodore, B.S., 1920	SS	168½	* † Champaign
Stern, Eugene Jules	IndA		* † Montgomery, Alabama
Sternaman, Joseph Theodore	IndA	35	* † Springfield
Stetler, Roland Guest	ForC	23	* † Chicago
Stewart, Edward Paul	LAS	83	* † Harvey
Steurer, Irving Charles	Agr	21	* † Garden Prairie
Stevens, Albert Beveridge	MinE	37	* † Columbus, Indiana
Stevens, Arthur Merchant	Bus	36	* † Chicago
Stevens, Arthur Mitchell	Bus		* † Aurora
Stevens, Cora Anna	LAS	7	* † Champaign
Stevens, Earl Grover	SS	24	* † Rantoul
Stevens, Frances Lucile	HELAS	32	* † Urbana
Stevens, Helen Ford	LAS	117	* † LaSalle
Stevens, James William, II	Bus	4	* † Chicago
Stevens, Joseph A.	SS	9½	* † Champaign
Stevens, Norma Woodmancy	LAS (SS)	6½	* † Champaign
Stevens, Raymond La Moine	Accy (SS)	103	* † Champaign
Stevens, Walter Judson	Law (SS)		* † Champaign
Stevenson, Helen Gould	LAS		* † Harvey
Stevenson, Pauline Roberta	LAS	32½	* † Fairfield, Iowa
Stevenson, Ross James	ME	21½	* † Kansas City, Missouri
Stewardson, Glenn	EE		* † Shelbyville
Stewart, Andrew Brown	CE		* † Chicago
Stewart, Clarence Putnam	ChE		* † Peru
Stewart, Cyrus Byron	Agr	76½	* † Carman
Stewart, David Jackson	CE	41	* † Ava
Stewart, Everett Charles	Bus	19½	* † Fowler, Indiana
Stewart, Everette Anson	Law sp		* † Parma, Missouri
Stewart, Harold Kile	Agr	54	* † Charleston
Stewart, Paul James	Ath	36	* † Chicago
Stewart, Walter Sunkel	Agr		* † Paris
Stewart, William Martin	Bus (SS)	35	* † Alton
Stickney, Clifford	LAS		* † Chicago
Stidham, Melissa Geneva	Agr	116	* † Mahomet
Stiefenhofer, Howard George	Bus	16	* † Barrington
Stiegemeier, Edna Joanne	LAS	33	* † St. Louis, Missouri
Stillwell, Helen, A.B., 1918	SS	135	* † Urbana
Stillwell, Leland Manford Thomas	MedP		* † Champaign
Stimes, Omar Malcolm	Agr		* † Capron
Stine, Loren Matchett	Bus		* † Saybrook
Stinson, Clarence Henry	Bus	42	* † Eldorado
Stitt, Norman Kile	IndA	34	* † Springfield
Stoaffer, Ollie Mae	SS	43½	* † Centralia

Stockham, Douglass William	ME (SS)	107	* † Birmingham, Alabama
Stockwill, Leo Evren	Bus		* † Urbana
Stodola, John	CE		* † Hammond, Indiana
Stoeckle, George William	AE		* † Sterling
Stoetzel, Herbert William	Bus	38	* † Chicago
Stoever, Petronilla Gertrude	HELAS	96	* † Raymond
Stohrer, Walter Albert Fred	CE	70½	* † Chicago
Stoll, Frieda Caroline	HEAgr	108	* † Aurora, Indiana
Stoll, Herbert Manuel	CE	35	* † Oak Park
Stoltey, Marjorie Zell	LAS (SS)	63½	* † Champaign
Stone, Earle	LAS sp	20	* † Bloomfield, Indiana
Stone, Everett Wheeler	ME	63	* † Evanston
Stone, George William	Agr	79	* † Potomac
Stone, Harry Francis	FOM	51	* † Danville
Stone, James Irvin	EE		* † Chicago
Stone, Lowell Vestry	C&L	33½	* † Villa Ridge
Stone, Ray Scott	ForC	34	* † Palmer
Stone, Wayne Jefferson	C&L	23	* † Villa Ridge
Stoner, Clarence Freeman	Agr sp		* † Lacon
Stone, Louis Abner	RA	25½	* † Chicago
Storer, Ben Wade	ME (SS)	78½	* † Centralia
Storer, Wilson Bates	Accy	30½	* † Centralia
Storm, Mona Gertrude	LAS		* † Morrisonville
Stormont, Lowell Heston	Bus	59½	* † Indianapolis, Indiana
Stormzand, Mrs. Leila Elizabeth	SS	3	* † Urbana
Stosskopf, Marei Elizabeth	LAS		* † Evanston
Stout, George William	LAS		* † Newcastle, Indiana
Stout, James Howard	Agr		* † Springfield
Stowe, Wilda Grace	LAS	7	* † Champaign
Strabel, Thelma Louise	Jnd	102½	* † Urbana
Strader, George Michael	AE	42	* † Danville
Straight, Leta Lenore	HELAS	98½	* † Fonda, Iowa
Strandberg, Avery	MinE (SS)	57½	* † Lockport
Strane, Archie Abir	CE	82½	* † Urbana
Strange, Eugene Ernest	Bus		* † Harrisburg
Strasser, Joseph Mast	FOM	56	* † Joliet
Straub, Lorenz George	CE	38	* † Kansas City, Missouri
Straus, Alan Livingston	Bus		* † Bloomington
Strauss, Evan Bryson	Bus	47½	* † Gibson City
Straw, Gertrude Isabel	HELAS sp		* † Wheaton
Strawbridge, Ethel Louise	LAS		* † Chicago
Strawbridge, Ewart	Bus (SS)	109½	* † Chicago
Strehlow, Robert	CE	103½	* † Peoria
Stretch, Mary Imogene	LAS		* † Newcastle, Indiana
Stricker, Earl Edward	LAS		* † Okawville
Strickle, Robert McLean	Agr	47	* † Bloomington
Strike, Clifford Stewart	EE		* † St. Joseph, Missouri
Stringer, Harold Huddard, Jr.	Accy	24	* † Dubuque, Iowa
Strode, Randolph William	ME	37	* † Champaign
Stroecker, Warren Dale	Agr	41	* † Freeport
Strohm, Margaret Irene	LAS	66½	* † Livingston
Strohm, Raymond Henry	Bus	107½	* † Elgin
Stroker, Ralph Carr	Agr		* † Wauconda
Strole, Alvey James	IndA	22	* † Terre Haute, Indiana
Strom, George William	EE		* † Gary, Indiana
Strombeck, Mearl Donald	EE	40½	* † Plymouth, Indiana
Strong, Fred Harry	Bus	36	* † Chicago
Strong, William Stanley	Bus		* † Morris
Stross, Carl James	MinE		* † Collinsville
Strube, Clarence Knox	Agr	33	* † Champaign
Stroud, Paul Donald	Bus		* † Atlanta
Strout, Frank Hiram	EE	2½	* † Harvey
Strubinger, George Ralph	Agr		* † Allerton
Strubinger, Julian Willard	Agr		* † Barry
Strubinger, Lucian Hart	Agr	26	* † Barry
Struhsacker, Eugene Philipp	LAS(SS)	58	* † Chicago
Stryker, Norman Ransavell	EE	32	* † Trenton, New Jersey
Stuart, Roxie Katherine	HELAS	64½	* † Quincy
Stuart, Winifred Mable	LAS		* † Champaign
Stubbins, John Russell	CE	35	* † Paris, Missouri
Stubblefield, Roy Edison	Agr		* † Bloomington
Stubbs, Kathryn	LAS		* † Fowler, Colorado
Stubbs, Mary Christine	HELAS	101	* † Fowler, Colorado
Stubbs, Sadie Levina	Law sp	3	* † Lincoln, Nebraska
Stubbs, William Chisholm, Jr.	Bus	34	* † Highland Park
Stuckey, Eva Mildred	LAS	99	* † Altona
Studebaker, William Taylor	Bus		* † Logansport, Indiana
Stuebe, Leonard Russell	EE	35	* † Danville
Stuebe, Louis Frank	ChE	73½	* † Danville
Stuebing, Carl Frederick	Bus	22	* † Chicago
Stufenhoefer, Howard George	Bus		* † Barrington
Stulzinski, Bruce Alexander	EE		* † Westville
Stull, Hazel Golda	LAS		* † Centralia
Stumbaugh, Elizabeth Lillian	Mus		* † Delavan
Stumpf, Wipert Arnot	Accy	70	* † Elgin
Sturgeon, Helen Gwynne	Ed	99	* † El Paso

Sturgeon, Margaret Erma	SS	85	Fisher
Sturgis, Charles Ernest	LAS		† Bluffton, Indiana
Stutzman, William Coe	Bus		† Buda
Styles, Edward Lysander	Bus	8	* † Springfield
Suffern, Samuel George	MinE		* † Coal City
Sukumlyn, Stephen Williams	SS	93	* † Kief, North Dakota
Sullins, Vivian	LAS	32½	† Marshall
Sullivan, Edna Frances, A.B., 1919	SS	136½	* † Champaign
Sullivan, George Cornelius	Ath	87½	* † Highland Park
Sullivan, Lawrence Clay	SS		† Russell Springs, Kentucky
Sullivan, Loretta Elizabeth	Bus		† Rockford
Sullivan, Mary Delphine	SS	7½	* † Jacksonville
Sullivan, Paul Harry	Bus	39	* † Attica, Indiana
Sullivan, Robert Emmet	Bus		* † Stonington
Sullivan, Virgil Richard	Chem (SS)	106½	* † Urbana
Sumeriski, Dewey Burris	ME	20	* † Libertyville
Summers, Danah Ethel	HEAgr	29	* † Moscow, Kansas
Sun, Chang Heng	Bank		* † Tientsin, China
Sund, Gerald Herbert	LAS		* † Harvard
Sunderland, Glenn Henderson	SS	71½	† Burlington, Colorado
Sutherland, Wesley Burr	Bus	66	* † Sioux City, Iowa
Sutphen, Katherine Van Deusen	SS	15½	† Dooloo, New York
Sutton, Charles Reuel	AE	109¾	* † Ottawa
Sutton, Mark	LAS	21	* † Terre Haute, Indiana
Sutton, William Henry	LAS	95	* † Washington, D. C.
Svihla, Arthur	Agr		* † Chicago
Swansen, Erna	LAS		† Sioux City, Iowa
Swanson, Elmer Albert	ME (SS)	69½	* † Chicago
Swanson, Joseph Arthur	Bank		* † Mason City, Iowa
Swanson, Leah Frances	HEAgr		* † Mason City, Iowa
Swanson, Reuben Edgar	LawP	51	* † Prophetstown
Sward, Lawrence Howard	Bus (SS)	77	* † Chicago
Swart, Harvey Groenier	Bus	31	* † Chicago
Swarthout, Kenneth Lowrel	CE		* † Chicago
Swarts, Ernest Lyle	Bus		* † Dixon
Swarts, Carl Errett	LAS	38	* † Danville
Swartz, Cecil Augustus	Agr	54½	* † Williamsfield
Swearingen, Clair Vere	MSE	59½	* † Champaign
Swearingen, James Isaac	LAS	8	* † Heyworth
Sweeney, Clare Louise	Mus sp		† Somerville, Massachusetts
Sweet, Paul Cunliffe	Ath	31	* † Battle Creek, Michigan
Sweet, Robert Lockwood	Bus		* † Kansas City, Missouri
Swenson, Carl Adolph	Law	1½	* † Rockford
Swick, Curvella H	Law	74	* † Galton
Swicker, Lionel Montgomery	Voc vs p	25	* † Crossville
Swift, Helen Louise	LAS	62	* † Belvidere
Swigart, Beulah Hope	LAS (SS)	21	* † Farmer City
Swinehart, Charles Edwin	LG	104	* † Stuart, Iowa
Swisher, Madeline Florence	HELAS	28	* † Danville
Switzer, George Benjamin	LAS	34½	* † Plymouth, Indiana
Switzer, Lars Waldorf	MedP	15½	* † Ludington, Michigan
Sykes, Augusta Jamie	SS		† Columbus, Mississippi
Sykes, Samuel Dwight	ForC	98	* † White Hall
Sylvester, Adelene	LAS (SS)	104½	* † Chicago
Tabor, Hubert Baker	Agr	69½	* † Sullivan
Taft, Harold	CE	35	* † Orangeville
Taft, Kendall Benard	SS		† Chicago
Tai, Hon Hang	Bank		† Hong Kong, China
Takaku, Kiyoshi Kichishiro	EP		* † Urbana
Talbot, Dorothy Newell	LAS	138½	* † Urbana
Taliaferro, James Rowan	Bus		* † Oklahoma City, Oklahoma
Talmage, Daniel H	Bus	27	* † Champaign
Talmage, Gilbert Arthur	Bus sp		* † Champaign
Tanenbaum, Albert Lewis	ChE	70	* † Chicago
Tang, Tsan Hsueh	Chem (SS)	5	* † Hong Kong, China
Tanikawa, George Noborn	LAS (SS)	58½	* † Florin, California
Tankersley, Aenid Emilie	LAS	32	* † Chicago
Tanner, Clara May	Bus		* † Saunemin
Tanner, Newell Wilson	Agr	96	* † Aurora
Tanner, Norbert Peter	CE		* † Chicago
Tarbell, Charles Gilman	Bus	34	* † Waterloo, Iowa
Tarrant, Victoria Kimball	HELAS	34	* † LaGrange
Tascher, Harold	LAS		* † Ashkum
Tascher, Wendell Russel	Agr	16	* † Ashkum
Tate, Harriet Lucile	LAS		* † Charleston
Taubert, Carl August	LG	108½	* † Casselton, North Dakota
Taylor, Albert Max	MedP	32	* † Mooresville, Indiana
Taylor, Ardys La Vergne	LAS		† Chicago
Taylor, Arthur Paul	Agr	42	* † Roseville
Taylor, Aurilla Mattie	SS	7½	* † East St. Louis
Taylor, Berenice Lucile	LAS	65½	* † Princeville
Taylor, Bert Sidney	LAS	35	* † Springfield
Taylor, Earl Gilbert	Mus sp		* † Kankakee
Taylor, Elbert Wallace Arnold	CE (SS)	61	* † Litchfield, Montana
Taylor, Eleanor Jane	LAS		* † Indianapolis, Indiana
Taylor, Eugene Emerson	MedP	27½	* † LeRoy

Taylor, George Evans	LawP	100	* † Toledo, Ohio
Taylor, George Y	EE	65½	* † Bismarck
Taylor, Helen June	HELAS	26	* † Effingham
Taylor, James Ervin	Bus		* † Grayville
Taylor, John Bradshaw	ChE	71	* † Peoria
Taylor, John Wesley	MinE	55	* † Terre Haute, Indiana
Taylor, Lois Alberta	Mus sp	8	* † Champaign
Taylor, M Corinne	SS	7½	* † St. Louis, Missouri
Taylor, Owen Russell	Bus	25	* † Le Roy
Taylor, Robert Cook	Agr	49½	* † Earlville
Taylor, Robert Wendell	LAS		* † Villa Grove
Taylor, William Herman	Bus	21	* † Decatur
Taylor, William Marion	Agr		* † Virginia
Taze, Donovan Long	ME (SS)	67	* † Moline
Tebo, Thomas Everett	CE		* † Chicago
Teeter, Louis Blair	CE		* † Carbondale
Teeters, Esther Gladys	HELAS (SS)	119½	* † Anderson, Indiana
Teeters, Ethalinda Berniece	LAS (SS)	71½	* † Auburn, Indiana
Teghtmeyer, Lauren Ewart	CE	66	* † Bremen, Indiana
Teller, James Curry	Chem		* † Riverside
Telling, Winona	SS	6½	* † Decatur
Telmo, Pedro Membrado	ME	76	* † Pangasinan, Philippine Islands
Temma, August Ernest	Voc ts p	12	* † Hinckley
Temple, Claude Marion	LAS	44½	* † Mattoon
Templeman, James Dale	Law	4	* † Springfield
Templeton, Mark Miller	Chem	27	* † Palestine
Templin, Katherine Louise	LAS (SS)	7	* † Champaign
Tendick, John Samuel	Bus	54½	* † Canton
Teninga, Alfred John	Agr	100½	* † Chicago
Teninga, John Albert	LAS	24	* † Chicago
Tenney, Frank Melville, Jr.	Bus		* † Decatur
Tenney, Walter Irving	Agr	56½	* † River Forest
Terpinitz, Jennie Grace	Jnl (SS)	100½	* † Champaign
Terwilliger, Ruth Mae	Ed (SS)	103½	* † Urbana
Tesch, Francis Edward	Ath		* † Marshall, Michigan
Tessing, Arvid Fred	AE	35	* † Chicago
Teuscher, John Ernst	Accy	31	* † St. Louis, Missouri
Teuton, George Almon	Bus		* † Metropolis
Thackham, Edwin William	LAS	47	* † Moline
Thayer, Lucille Florence	LAS		* † Chicago
Thayer, Mildred Evelyn	LAS		* † Chicago
Theilen, Sophie	LAS	97½	* † Camp Point
Theodoroff, Jordan	ME		* † Urbana
Thiel, Charles John	Chem	43½	* † Chicago
Thiel, Emery George	Accy	31	* † Bryan, Ohio
Thiel, Ernest Aloysius	ME	61	* † Chicago
Thiele, Francis Benedict	LAS	65½	* † Chicago
Thielecke, Mary Elizabeth	HEAgr		* † Grand Chain
Thiem, Ezra George	Agr	89	* † Chicago
Thistlewood, Geraldine	LAS		* † Cairo
Thomas, Alice Mae	LAS	94	* † Mt. Morris
Thomas, Alpheus Winfield	Bus (SS)	45½	* † Weirgor, Wisconsin
Thomas, Charles Edward	ChE	17	* † St. Louis, Missouri
Thomas, Clarence Leon	LG	18	* † Sheffield
Thomas, Dwight Donald	IndA		* † St. Louis, Missouri
Thomas, Edythe Josephine	LAS	13	* † Green Bay, Wisconsin
Thomas, Emile	Agr		* † St. Louis, Missouri
Thomas, Frederick Hayward	ME (SS)	58	* † Moline
Thomas, Harry A	Agr	106	* † Rockford
Thomas, James Gladwyn	LAS	35	* † Oklahoma City, Oklahoma
Thomas, John Theron, A.B., 1920	SS	136	* † Champaign
Thomas, Marjorie Marilyn	LAS		* † Fairfield
Thomas, Mary Estelle	LAS	18	* † Argenta
Thomas, Merle Clifton	Agr		* † Fargo, North Dakota
Thomas, Raymond Stanley	Bus	28½	* † Vernon
Thomas, Ruth Elizabeth	SS	6½	* † Champaign
Thomas, Velma Mae	SS	6½	* † Champaign
Thompson, Mrs. Agnes Brooks Loomis	LAS	105	* † Chicago
Thompson, Albert Wilder	LAS	69½	* † Harvey
Thompson, Charles Woody	LAS	34	* † Urbana
Thompson, Clinton Samuel	EE	37	* † Ullin
Thompson, Davis Wesley	Agr (SS)	97½	* † Sidney, Ohio
Thompson, Donald Arthur	EE	8	* † Mendon
Thompson, Gladys Eleanor	LAS	41	* † Chicago
Thompson, Guy Holsinger	LAS (SS)	68	* † Fayetteville, Pennsylvania
Thompson, Harold Dean	CE		* † Chicago
Thompson, Helen Margaret	Bus	96	* † Hume
Thompson, Hubert Quentin	MedP		* † Rockville, Indiana
Thompson, Jacqueline Winifred	LAS		* † Evanston
Thompson, John Philip	CE	70	* † Aurora
Thompson, Julia Margaret	LAS (SS)	66½	* † Champaign
Thompson, Lee Carl	Agr	95	* † Mommouth
Thompson, Lowell Ernest	Bus	86	* † Champaign
Thompson, Morgan	Bus	10	* † Stephens, Arkansas
Thompson, Ralph Langston	Bus	22	* † Sullivan, Indiana
Thompson, Robert Gail	Bank	64½	* † Berwyn

Thomson, Kenneth Barber	<i>ForC</i>		*	South Bend, Indiana
Thorell, Gillman Frederic	<i>Bus</i>	26	* †	Stronghurst
Thorne, John Farley	<i>Bus</i>	10	* †	Forrest
Thornsburch, Thelma Theo	<i>LAS (SS)</i>	97½	* †	Urbana
Thornton, Andrew Robertson	<i>Flor</i>	32	* †	Elgin
Thornton, William Ferguson	<i>CE</i>	26	* †	Chicago
Thorpe, Alonzo Valede	<i>Bus</i>	64	* †	Clinton
Thorpe, Marian	<i>Bus</i>		†	Urbana
Thorne, Isabella C	<i>LAS</i>		†	Fennville, Michigan
Thran, Gus Thomas	<i>IndA</i>		* †	Moline
Thrasher, Chauncey Albert	<i>ChE</i>	27	* †	Thawville
Thrasher, Lloyd Laverne	<i>Accy (SS)</i>	70	* †	Wheatland
Throckmorton, Naomi Salome	<i>LAS</i>		* †	St. Louis, Missouri
Thunberg, Arthur Nels	<i>EE</i>	40½	* †	Joliet
Thurman, Anne Merle	<i>LAS sp</i>	25	* †	Frankfort, Indiana
Thurman, Leslie Clinton	<i>C&amp;L</i>		* †	Kansas City, Missouri
Thurston, Alfred William	<i>LAS</i>	93	* †	Champaign
Thurston, Alvin Stewart	<i>SS</i>	81	†	Chicago
Tice, Harold Isaac	<i>SS</i>	9		Tice
Ticen, Geneva Alice	<i>LAS</i>	57	* †	Colfax, Indiana
Tidd, Mildred Arline	<i>HEAgr</i>	50⅓	* †	Chicago
Tiedemann, Bert Justus	<i>LAS</i>	21	* †	O'Fallon
Tiernan, Louis Patrick	<i>IndA</i>	30	* †	Macomb
Tiffen, Herbert Frederick	<i>Bus</i>	60	* †	Chicago
Tilds, Marion Hannah	<i>HELAS</i>	30	* †	Milford
Tillotson, Clara Eva	<i>LAS</i>	72	* †	Urbana
Tillotson, Roy Everett	<i>SS</i>			Oberlin, Ohio
Tilman, Luther Allen	<i>Bus</i>	32½	* †	Wabash, Indiana
Tilsy, John William	<i>Agr</i>	49	* †	Lockport
Tilton, Edna Pauline	<i>LG</i>	3	* †	Chicago
Timm, Kenneth Paul	<i>LAS</i>	½	* †	Tuscola
Tinney, Homer Carleton	<i>Accy</i>		†	Butler, Indiana
Tischner, Theodore	<i>Ed</i>	92	* †	Milwaukee, Wisconsin
Titus, Albert James	<i>MedP</i>		* †	Bloomfield, Indiana
Tkach, Michael Edward	<i>Bus</i>	93½	* †	Streator
Tobias, Frank	<i>Bus</i>	106	* †	Normal
Tobias, Vernon Hardell	<i>Voc vs p</i>		* †	Bethany, Missouri
Tobin, John Francis	<i>ME</i>	36	* †	Gilberts
Todd, Le Roy Charles	<i>Ath</i>		* †	Dundee
Todd, Roscoe Johnson	<i>Bus</i>	60	* †	Elgin
Todd, Ruth	<i>LAS</i>	94	* †	Sullivan
Tolch, Noah Arthur	<i>MinE</i>		* †	Sigel
Toll, Arno William	<i>Bus</i>	122½	* †	Chicago Heights
Toll, Karl Harold	<i>Bus</i>		* †	Chicago Heights
Tolle, Harold Van Meter	<i>ChE</i>		* †	Cairo
Tolman, Robert Gardner	<i>Bus</i>	111	* †	Yonkers, New York
Tomm, George Edward	<i>Agr sp</i>	42	* †	Delavan
Tongko, Gelacio Lochico	<i>MedP</i>		* †	Rizal, Philippine Islands
Topper, Martin	<i>LG</i>		†	Chicago
Torgan, Milton	<i>SS</i>			Providence, Rhode Island
Torr, Raymond Osbourne	<i>C&amp;L</i>		* †	Terre Haute, Indiana
Torrance, George	<i>MinE</i>		* †	Pontiac
Touff, Joseph	<i>Bus</i>		* †	Chicago
Tour, Harry Bird	<i>AE</i>	108½	* †	Humboldt, Iowa
Tourtlot, Frederick Ignatius	<i>IndA (SS)</i>	100½	* †	Oak Park
Towle, Dorothy Elizabeth	<i>SS</i>	7		Urbana
Towe, Harold Theodore	<i>Law</i>	28	* †	Toledo, Ohio
Towe, Harold LeRoy	<i>IndA sp</i>		* †	Oak Park
Towe, Norman Leslie	<i>IndA</i>		* †	Oak Park
Towe, Warren Wilder	<i>LAS</i>		* †	Urbana
Towne, Allen Erastus	<i>Bus</i>		* †	Park Ridge
Towne, Jackson Edmund, A.B., A.M., 1916, 1917	<i>Lib</i>			
Towne, Milton Gaines	<i>Agr</i>	28	* †	Milwaukee, Wisconsin
Townsend, Nellie Ferne	<i>Bus</i>	43	* †	Fayetteville, Arkansas
Townsend, Norma Eleanor	<i>LAS</i>	34	* †	Sidney
Townsend, Sidney Funk	<i>Agr</i>	118	* †	Elgin
Trabue, James Edward	<i>Bus</i>	28	* †	River Forest
Trabue, Tunnell Benjamin	<i>Bus</i>	31½	* †	McCune, Kansas
Tracy, Bernice Edith	<i>LAS</i>	60	* †	McCune, Kansas
Trager, Gladys Valeria	<i>HELAS</i>	66½	* †	Chicago
Trams, Mrs. Lottie Belle Peacock	<i>SS</i>	101	* †	Loda
Trank, Ralph Allen	<i>ForC</i>	53½	* †	Morris
Traut, Francis Harry	<i>Bus</i>	40½	* †	Rockford
Trautman, Lois Leander	<i>Bank</i>	71½	* †	Paducah, Kentucky
Trautmann, Henry William	<i>Agr (SS)</i>	30½	* †	Detroit, Michigan
Trautvetter, Dorothea Mae	<i>LAS</i>	16	* †	Peoria
Travelstead, Moody Evert	<i>EE (SS)</i>	16	* †	Peoria
Traxler, Ivan Ward	<i>Agr (SS)</i>	110	* †	Carriers Mills
Treadway, John Wyckoff	<i>CE</i>	4	* †	Urbana
Treadwell, Laura Emma	<i>LAS</i>	34	* †	Virten
Treat, Edna Almeda, B.M., 1910	<i>Mus irr</i>	16½	* †	Kansas City, Missouri
Trebilcock, Paul Francis	<i>ChE</i>		* †	Urbana
Tredwell, John, Jr.	<i>Bus (SS)</i>	101	* †	River Forest
Tredwell, Ritchie Neely	<i>Bus</i>	40	* †	Chicago
Tree, Ethel Mildred	<i>IndEd</i>	28½	* †	Chicago
			* †	South Wayne, Wisconsin

Trenkle, Howard Raymond	Bus	57½	* † Farmer City
Tress, Esther Marie	HELAS		* † Chicago
Trevett, Richard Mansfield	Bus	23½	* † Champaign
Trexler, Leonard Ervin	EE	8	* † Wheeler
Trias, Rafael Ferrer	Bus		* † Cavite, Philippine Islands
Trifonoff, Trifon Konstantinoff	EE		* † Sofia, Bulgaria
Trigg, Grace Marian	LAS	101½	* † Atlanta
Triggs, Lawrence Fuller	Accy	32	* † Huntington, Indiana
Trimble, Russell Chauncey	Agr	38½	* † Sidell
Tripp, Donald Ardean	Ins	72	* † Springfield
Trissal, Frances Marion	HELAS	77½	* † Chicago
Trogdon, Lois Blanche	LAS	63	* † Vermilion
Trogdon, Mary Estelle	LAS	30	* † Vermilion
Trotter, Robert Bruce	Agr	84	* † Coal City
Troup, Robert Cameron	CE	21½	* † Buffalo, New York
Trout, Willard Kellogg	Bus	36½	* † Aurora
Trovillion, Hal V	Agr	14	* † Brownfield
Trowbridge, Helen	LAS (SS)	101	* † Green Valley
Trowbridge, Loreta Dorothy	LAS	71½	* † Green Valley
Trowbridge, Margaret Elizabeth	HELAS	27	* † Green Valley
True, Bernadine Idelle	LAS	32	* † Aurora
Trueblood, Mark Sherwin	SS	8	* † Marion, Indiana
Tsang, Chuk Yee	Chem (SS)	108	* † Hong Kong, China
Tsau, Chin Ming	RCE	17	* † Canton, China
Tschentke, Herman Louis, B.S., 1920	SS	132	* † Crescent City
Tseng, Tsao Wen	REE		* † Shanghai, China
Tsiang, Vendah	Educ sp		* † Soochow, China
Tsou, Shang Hsiung	Chem	3	* † Wusih, China
Tsou, Tsong Yua	EE	2	* † Wusih, China
Tuan, Wei	SS	93½	* † Mengwha, China
Tubbs, Helen Blanche	SS	5	* † Danville
Tucker, Gerald Thompson	Bus	69	* † Decatur
Tucker, Gladys Elizabeth	HELAS	110½	* † Hume
Tucker, Hazel May	LG	45½	* † Champaign
Tucker, John Gordon	EE	37	* † Centralia
Tucker, Paul Leonard	Ath		* † Ligonier, Indiana
Tucker, Pauline Lillian	LAS		* † Metropolis
Tucker, Percy	Bus		* † Flat River, Missouri
Tukey, Edwin Cubberly	Bus	39	* † Marion, Indiana
Tukey, Gertrude Dodge	LAS	35	* † Berwyn
Tull, Thomas Warren	Accy	27	* † Monticello
Tully, Thomas Henry	LAS	76	* † Elmwood
Tulman, Jacob	Jnl	27½	* † Duluth, Minnesota
Tulpin, Mary Ruth	LAS		* † Franklin
Tung, Shu Doh	ME	86½	* † Honan, China
Tunnell, Harold B	LawP	24½	* † Hornsby
Turnbull, Mary Irene	LAS	98	* † Neponset
Turnbull, Ralph William	Ind. I (SS)	36	* † Carlinville
Turner, Fred Harold	MrdP (SS)	73½	* † Tuscola
Turner, Jean Baxter	LAS	32	* † Loda
Turner, Jewett Mattox	LG	89½	* † Chicago
Turner, John Paul	Arch	86½	* † Tuscola
Turner, Jonathan Baldwin	Agr	30	* † Buller
Turner, Leonard Christian	IndA	63½	* † Forest Park
Turner, Marie	HEAgr		* † Urbana
Turner, Merle Bernice	LAS	114	* † Champaign
Turner, Nellie Margaret	HELAS (SS)	83½	* † Urbana
Turner, Oral Yvette	HEAgr		* † Urbana
Turner, Sheldon Knight	Bus (SS)	92	* † Evanston
Turner, Stephen Gilpin	Agr	8	* † Charleston
Turner, Winston Haywood	LAS		* † Chicago
Turpin, Elizabeth Mae	Mus	28	* † Decatur
Tushek, Rudolph Robert	CE	113½	* † Joliet
Tuthill, Gray Butler	CerE	4	* † Chicago
Tuttle, John Donald	Arch	45½	* † Chicago
Tutwiler, Robert Evans	Bus	101½	* † River Forest
Tutwiler, Mrs. Ruth Loe Ella	LAS	54½	* † Chicago
Tuxhorn, David Bruce	EE		* † Edwardsville
Tyddy, Frank	LG sp	30½	* † Ledlice, Bohemia
Twardack, James Arthur	Agr	44½	* † Urbana
Twigg, Charles Edward Joseph	Agr		* † Paris
Twigg, Josephine Sybil	LAS	111½	* † Brodton
Twitshell, Standlee Irving	Arch	46½	* † Belleville
Tykle, Martha Eloise	LAS	23	* † Middletown, Indiana
Tyson, Germaine Keepers	EE (SS)	28	* † Chicago
Uehara, Stanley Clemens	Agr	21½	* † Chicago
Uehmann, George Fritz	Agr sp		* † Sparta
Uelrich, Lexie	LAS		* † Chicago
Uelrich, Pella	LAS		* † Chicago
Udwin, Thelma	LAS		* † Chicago
Ueberrhein, George Francis	Agr	99½	* † Peoria
Uehren, Estella Anna, A.B., 1920	SS	134½	* † Galena
Udright, Jean Percy	Accy	56	* † Benton Harbor, Michigan
Urey, Orion	Agr	35	* † Martinsville
Urich, George Edward	EE	22	* † Pinckneyville
Umbach, Erwin Theodore Emil	SS	16	* † St. Louis, Missouri

Umfleet, Mary Elizabeth	Mus sp	16	* † Grayville
Umphlet, Chris	MedP	37	* † Buchanan, Michigan
Urban, Ruby Cashion	Mus		* † St. Louis, Missouri
Urban, Theodore, Jr.	Chem		* † Quincy
Urbanek, Joseph John	LAS sp		* † Coffeen
Uthoff, Carl Joseph	SS	76½	* † Chicago
Uthus, Clarence Bruce	AE (SS)	38½	* † Milwaukee, Wisconsin
Utley, George Hamlet	EE	32	* † East St. Louis
Utley, Ross James	Bus	109½	* † Chicago
Uttley, Theodore Henry	Agr	100	* † Sterling
Utterback, Austin Lee	EE	8	* † Springfield
Vaaler, Marion Sophie	HELAS		* † Chicago
Vachon, Cecelia	SS	6	* † Nauvoo
Vail, Charles Winfield, Jr	Law	30	* † Springfield
Vale, Simeon	LAS (SS)	35	* † Cordella, Philippine Islands
Valentine, Edwin Ernest	AE	96	* † Green Bay, Wisconsin
Valentine, Florence	LAS	65	* † Mt. Vernon
Valentine, Wilbur Brown	EE		* † Marion
Vallier, Justin Du Bois	EE	69½	* † Champaign
Vallier, Ruth Eleanor	Accy (SS)	122	* † Champaign
Van Antwerp, Lucille Blanche	LAS		* † Louisville, Kentucky
Van Arsdell, Sadie Mae	LAS	14	* † Lawrenceburg, Kentucky
Van Bramer, Douglas Francis	Agr	102	* † Chicago
Vance, Paul Andrew	EE	35	* † Urbana
Vance, William Jones	SS		* † Pittsburgh, Pennsylvania
Vandaveer, Frederick Ewart	Chem	30½	* † Decatur
Van Den Bussche, Maria Margarita	LAS	35	* † Rock Island
Vanderbeck, Irma Margaret	LAS		* † Rockford
Vanderheyden, Fern Lucille	LAS (SS)	73½	* † Stockton
Vanderkloot, John Adrian	AE		* † Oak Park
Van der Meer, Valentine	Bus		* † Chicago
Vandervort, Maurice Linwood	AE (SS)	55	* † Kankakee
Vandervort, Onieta Moma	LG	63½	* † Normal
Vandeventer, Penton Rose	Agr	89	* † Mt. Sterling
Van Deventer, Ruth Marlowe	Flor	88½	* † Springfield
Van Dolah, Delos	Bus		* † Urbana
Van Doren, Esther Margaret	LAS (SS)	76½	* † Champaign
Van Doren, Walter Earl	Bank (SS)	25	* † Champaign
Van Dyke, Fred Henry	Agr	33½	* † Ashley
Van Graan, Hoop Steyn	RA	26	* † Brandfort, South Africa
Van Kirk, William Tunis	Ath	28	* † Chicago
Van Meter, Mrs. Catherine Caborn	LAS sp (SS)	50½	* † Champaign
Van Natta, Henry Willis	Bus	36	* † Otterbein, Indiana
Van Ness, Laurence Reed	Low		* † Chicago
Van Ossol, Nathan Knox	Bus		* † Indianapolis, Indiana
Van Pelt, Willis	Agr	71½	* † Chicago
Varney, Dorothy Whitaker	Jnl	62	* † Kansas City, Missouri
Vater, Donald Frank	ChE		* † Chicago
Vaughan, Fred Nathan, Jr., B.S., 1920	Accy (SS) irr	136	* † Amboy
Vaughan, Helen Eloise	SS	3½	* † Crawfordsville, Indiana
Vaughan, Robert Edward	SS		* † Crawfordsville, Indiana
Vaughn, Harold	AE		* † Omaha, Nebraska
Vaughn, Henry Palmer	Bus	38½	* † Burkehaven, New Hampshire
Vaughn, Howard Flagler	AE	119½	* † Elk Mound, Wisconsin
Vaughn, Wendell Jesse	LAS	2	* † Champaign
Vaughn, William Edward	ChE	25	* † Fowler, Indiana
Vaupel, Carl Herman	ME	32	* † Pekin
Vauters, Ruth Lois	HEAgr		* † Pe Ell, Washington
Vawter, Monroe Fowler	Accy	63½	* † Hillsboro
Veihl, Ernest Edmund	ME		* † Granite City
Vercoe, Constance Muriel Beverley	LAS	53½	* † Highland Park
Verea, Arzapalo Juan	Agr	83½	* † Guadalajara, Mexico
Vernon, Chester	SS	8	* † Madison, Indiana
Vernon, Mrs. Pearl Lee	SS	15	* † Harvel
Veronda, William Jennings	EE	13½	* † Carbon Hill
Vial, Edmund Ellsworth	Agr	76½	* † LaGrange
Vial, Margaret Abigail	HEAgr		* † LaGrange
Viali, Rhoda Emily	HELAS	67	* † Monteno
Victor, Sturges La Verne	Agr	44	* † Onarga
Vine, Ben Clark	Bus		* † Alton
Violette, Robert Bluford	LAS	34	* † Ft. Worth, Texas
Visino, May Amelia	LAS	53	* † Murphysboro
Voeks, Forrest	Bus	112	* † Rockford
Voeltz, Olga Marie	ComT		* † Mare
Vogeding, Dwight Karl	Bus	33	* † Chicago
Vogel, Howard Evan	LAS		* † Richmond
Vogel, Otto Henry	Ath	20	* † Davenport, Iowa
Vogel, Ralph Emerson	ME	36	* † Princerville
Vogele, Leon Otis	Bus	91½	* † Urbana
Vogleson, Margery Anne	LAS	33	* † Chicago
Vogt, Milton Albert	ME		* † Columbia
Vohs, Linz Vincent	FOM (SS)	98½	* † LaSalle
Vollbracht, Florence Anna	LAS	113	* † Camp Point
Vollmer, Wilhelmina Elizabeth	LAS	107	* † Urbana
Voorhees, Mrs. Ruby Mondon	LAS	50	* † Urbana
Voorhees, Vanderveer	ChE	111	* † Urbana

Voris, Max Raymond	Agr		* † Stewardson
Voss, Esther Katherine	LAS	40½	* † Wilmette
Voss, Fred	SS	7½	* † Holland, Michigan
Votaw, Hazel Dolores	LAS (SS)	39	* † Urbana
Voynow, Edward Everett	ForC	29½	* † Chicago
Vrancek, Miles Emanuel	Bus	16	* † Maywood
Vreeland, Helen Olive	HELAS	13	* † Champaign
Vreeland, Henry Kipp	Law		* † Champaign
Vrooman, Agnes Wickfield	LAS	75½	* † Kokomo, Indiana
Waddell, Reginald Carter	Accy		* † Chicago
Wade, Sidney	LAS	96	* † Buffalo, New York
Wade, Winifred Bell	Jnl		* † Bloomington
Wadsworth, Elwain Swan	Agr	17	* † Dixon
Wagenknecht, Theodore William	Bus	36	* † Oak Park
Wagenknecht, Algernon Robert, Jr.	Agr	47½	* † LaGrange
Wagenseller, John Richard	Agr	79	* † Fairbury
Waggoner, Elizabeth Jane	LAS	32	* † Madison
Waggoner, Morris Edward	Agr	157	* † Lebanon
Wagner, Clifford Monroe	Agr	36	* † Kankakee
Wagner, Earl William	Bus (SS)	41	* † Urbana
Wagner, Edward Michael	Accy	63½	* † LaSalle
Wagner, Ferne Romolo	LAS	33	* † Melamora
Wagner, Melchior August	ME	15	* † St. Louis, Missouri
Wagner, Richard Edwin	MinE	34	* † Kankakee
Wagner, Roland Clark	EE		* † Murphysboro
Wahl, Clyde Raymond	Bus	65	* † Sterling
Wahl, George Franklin	CE		* † Champaign
Wahl, George John, Jr.	IndA	87½	* † Chicago
Wahlbrink, Armin August	Ath	19	* † St. Charles, Missouri
Walbert, George Henry	Accy	42	* † Chicago
Walden, Ada	SS	4	* † Farmer City
Waldie, Benjamin Dickison	Agr	64	* † Chicago
Wales, Raymond Orla	Bus		* † Downers Grove
Walker, Fred Woodward	ME	54	* † Mason City
Walker, Glenn Bruce	Bus	33	* † Aurora
Walker, Greydon Lyle	LawP		* † Mattoon
Walker, Harold William	Bus	67	* † LaGrange
Walker, Hazel Irene	LAS		* † Champaign
Walker, Hazel Lois	LAS	64	* † Gays
Walker, James Stewart	Agr		* † Weir, Kansas
Walker, John Rufus	IndA		* † Moline
Walker, Joseph Christy	Bus	72½	* † Moline
Walker, Laura	HELAS	83½	* † Clinton
Walker, Lee Earl	Agr	40½	* † Anna
Walker, Leland Seymour	SS	8½	* † Gobleville, Michigan
Walker, Lucile Valinda	LAS	30	* † Urbana
Walker, Myers Edgar	Bus		* † Chicago
Walker, Paul	Agr	94½	* † Palestine
Walker, Paul White, A.B., 1920	SS	137½	* † Galconda
Walker, Samuel Thomas	SS	6½	* † Effingham
Walker, Sarah Frances	HELAS	84	* † Clinton
Walker, Volney Denchar	ME	127½	* † Lakewood, Ohio
Walker, Ward Smith	Agr	54	* † Gays
Walker, William Franklin	Bus	33	* † Anderson, Indiana
Walkup, Ione Dorothea	LAS	97½	* † Champaign
Wall, Zachariah Robert	SS		* † Neston, Canada
Wallace, Claradehl	SS	70½	* † Urbana
Wallace, Elwin Thomas	Agr(SS)	110	* † Assumption
Wallace, George Ira	Agr	39	* † Beardstown
Wallace, Gerald Leroy	Agr		* † Elgin
Wallace, Henry Smith	CE	48½	* † Chicago
Wallace, Julian Loraine	Agr	2½	* † Homer
Wallace, Malcolm Penrod	CE	2½	* † Ewing
Wallace, Morris Titus	LAS	113	* † Oak Park
Wallace, Ruth	LAS (SS)	89½	* † Homer
Wallace, Samuel Haywood	LG	91	* † Wheaton
Wallace, Wendell Wayne	CE	36	* † Mooseheart
Waller, Charles Arthur	SS	6½	* † West Frankfort
Waller, Mrs. Mabel	SS		* † McLeansboro
Waller, William J	SS	8½	* † Thompsonville
Walling, Martha Gertrude	LAS	9	* † Muncie, Indiana
Wallingford, Charles Langley	Bus		* † Chicago
Wallis, Mrs. Grace Hite	SS	94½	* † Urbana
Walquist, Lawrence Wilfred	Bus	62	* † Rockford
Walsh, Earl Joseph	AE	110	* † Huron, South Dakota
Walsh, Nelson John	MedP	41½	* † Morris
Walsh, Robert Edward	LawP sp		* † St. Paul, Minnesota
Walsh, Robert Pollard	Arch	23½	* † St. Louis, Missouri
Walsh, Roger Richard	Bus	38	* † St. Louis, Missouri
Walter, Charles Keegan	RA		* † Champaign
Walter, William Reynolds	AE		* † Danville
Walters, James Garland	Accy		* † Oblong
Waltershausen, Louise	SS	7	* † Forest Park
Walton, Ruth Catherine	SS	7	* † Lebanon
Waltmire, Robert Nevyn	Accy	8	* † Punta Gorda, Florida
Wamsley, Edna May	LAS	26	* † Tuscola



Wang, Chien Z	RE		† Shanghai, China
Wang, Meng	EE sp		† Peking, China
Wang, Shu Chum	Bank		* † Peking, China
Wang, Wei Pu	ForC		* † Tientsin, China
Wangelin, Hugo Philip	Bus		* † Belleville
Wanzer, Elsie Louise	Jnl	28	* † Chicago
Wanzer, Sidney	Agr	49	* † Chicago
Ward, Alora	LAS	63½	* † Greenup
Ward, Charles Edward	CE		* † Geneseo
Ward, Dan Putman	Agr	82	* † Marshalltown, Iowa
Ward, Edna Louise	LAS		* † Champaign
Ward, Hiley Lemen	Accy	93½	* † DuQuoin
Ward, Leslie Orlando	Bus	20	* † Champaign
Ward, Margaret Grace	LAS	54½	* † Marshalltown, Iowa
Ward, Samuel Leonard	MedP		* † Saybrook
Warder, Florence Louise	LAS		* † Oak Park
Warfel, Lella May	Chem (SS)	75	* † New Philadelphia
Wargin, Lewis Joseph	ME	55½	* † LaSalle
Warner, Charles Herman	Chem (SS)	8	* † Chicago
Warner, Francis James	LAS	16½	* † Chicago
Warner, George Edward	Bus		* † Forest Park
Warner, Leonard John	Bus		* † Leland, Michigan
Warner, Robert Elmer	Bus		* † Chicago
Warren, Donald McGill	Bus	61	* † Watseka
Warren, Edwin Paul	Bus		* † Lawton, Oklahoma
Warren, Harry Theodore	Chem	101	* † Centralia
Warren, Hill	SS	41½	* † Bluford
Warren, Lyman Garratt	EE		* † Chicago
Warren, Mildred	SS		* † Mt. Vernon
Warren, Milton Willard	Agr	104	* † Mansfield
Warren, Orville	Bus	8	* † Urbana
Warren, Ruth	LAS	70	* † St. Louis, Missouri
Warren, Winifred Field	Bus	58½	* † Pawpaw
Warsaw, Jessie	Bus		* † Chicago
Wascher, Herbert Frederick	SS	129	* † Champaign
Wascher, Herman	Agr	65½	* † Champaign
Wascher, Ralph Bieknehl	Bus sp	8	* † Paxton
Washburn, Ava Lee	SS	125	* † Caneyville, Kentucky
Washburn, John Beard	LAS (SS)	25½	* † Crawfordsville, Indiana
Washington, Camille	LAS	61	* † Lovejoy
Wasson, Selma Myra	LAS	90	* † Decatur
Waterbury, Harry Bremner	Agr	103	* † Chicago
Waterfall, John Wesley	IndA	62½	* † Ft. Wayne, Indiana
Waterfall, Wallace	EngPh	73½	* † Ft. Wayne, Indiana
Waterman, Charles Eugene	MedP		* † Chicago
Waterman, William Layton	Agr	101	* † Chicago
Waters, George Gerald	ME	113½	* † Chicago
Watkins, Mitchell Sylvester	Bus (SS)	34	* † Cairo
Watkins, Lawrence George	CE sp		* † Berwyn
Watson, Alva Clinton	Bus		* † Mattoon
Watson, Arnold Sinclair	LAS	2	* † Chicago
Watson, Athelene	LAS	25	* † Colfax
Watson, Evelyn	LAS	19	* † Clinton
Watson, Frances Lee	LAS	24	* † Urbana
Watson, George Ferris	Chem (SS)	63	* † Danville
Watson, Grace Gamron	LAS	107	* † Arthur
Watson, Lu Etta Maud	HELAS		* † Champaign
Watson, Mary Helen	Mus		* † Urbana
Watson, Raymond Arnold	CE		* † Fithian
Watson, Rupert Warren	ME	3	* † Cairo
Watson, Thomas Bryars	Agr	6	* † Illinois City
Watt, Grace Eleanor	LAS (SS)	33	* † Champaign
Wattles, William McKinley	Jnl		* † Mitchell, South Dakota
Wattleworth, Charles	CE	60	* † Chicago Heights
Watts, Amos Holston, A.B., 1920	Law	48½	* † Nashville
Watts, Boyd	Arch	25	* † Decatur
Watts, Donald Gordon	Law		* † Champaign
Watts, Grace Minnie	Bank	115½	* † Saunemin
Watts, William Wadsworth	LawP	104½	* † Nashville
Waugh, George Wilfred	Bus	34	* † St. Louis, Missouri
Wayer, Joseph Mather	LAS		* † Goshen, Indiana
Wayo, Stephen John, Jr.	Chem		* † Whiting, Indiana
Wear, Ernest George	EE	93½	* † Macomb
Wear, Lawrence Theodore	ChE		* † Tamaroa
Weart, James Garrison	LAS (SS)	109½	* † Winnetka
Weary, Milton Brewer	REE		* † Oak Park
Weasel, Nellie Wilma	SS	51½	* † Pesotum
Weatherwax, Clifford	SS	28½	* † Marshall, Michigan
Weathers, Leland Clay	FOM	22½	* † Gothenburg, Nebraska
Weaver, Arthur Franklin	EE		* † Metropolis
Weaver, Charles Wayne	EE		* † Terre Haute, Indiana
Weaver, Dorothy Eunice	LAS	52	* † Champaign
Weaver, Loren De Witt	Bus	31	* † Sterling
Weaver, Vesta Belle	HELAS (SS)	100½	* † Henry
Webb, Charles A	SS		* † Bowling Green, Kentucky
Webb, Chester	Agr		* † Galesburg

Webb, Haldeman Adair	Bus	32	* † Chicago
Webb, Howard Baxter	ChE		* † Buda
Webb, Judson Willard	LAS (SS)	62½	* † Chicago
Webb, Lamont A.	LAS	21½	* † Danville
Webb, Ralph Duvivier	ME	8	* † Alton
Webb, Richard Lockwood	EE		* † Farmer City
Webb, Willis Crawford	Agr	98½	* † Chicago
Webber, Clyde Augustin	SS	29½	* † Urbana
Webber, Ruth Marjorie	Ed		* † Evansville, Indiana
Webster, Clarence Jacob	LAS	35	* † Edwardsville
Weber, Elizabeth	LAS	32	* † Chicago
Weber, Frank Dewey	Bus	8	* † Pana
Weber, Fredrik Gottlieb	SS	120	* † Champaign
Weber, Oscar Friedhelm	Educ		* † Chicago
Weber, Raymond James	IndA	26	* † McHenry
Weber, Robert Louis	IndA		* † Chicago
Webster, Edwin Herbert	ChE	10-45½	* † Washington, Indiana
Webster, Hayes Gilbert	Bus	71	* † Cisco
Weddle, Clifford Maurice	LAS		* † Kewanee
Wedge, Willbur Dewey	LAS (SS)	119½	* † Farmer City
Weedman, Frances	HEAgr	25	* † Wilmette
Weeden, Amy Gertrude	Agr	23	* † Chicago
Weege, Frank Charles	Agr	21½	* † Elmhurst
Weeks, Gayle Leone	Accy	16	* † Wilmette
Wepferth, John Frederick, Jr.	Agr	28	* † Washington
Wehrer, Keith Emanuel	Agr		* † Maywood
Wehrman, Gertrude Emily	LAS	28	* † Berwyn
Weick, Fred Ernest	ME	72	* † Berwyn
Weick, Herbert George	IndA		* † Little Rock, Arkansas
Weidemeyer, William Morrow	AE	45½	* † Louisville, Kentucky
Weidner, Garland Lehr	MedP	35	* † Chicago
Weill, Robert Samuel	Bus		* † Augusta
Weinterg, Sam Henry	Agr		* † Chicago
Weiner, Joseph Leroy	ME		* † Chicago
Weiner, Sophie	LAS		* † Chicago
Weingarten, Lawrence Bernard	Bus	47½	* † Champaign
Weinger, Benjamin	ChE	68	* † Chicago
Weinert, Goldie Bertha	LAS	95	* † Moline
Weir, Edgar Wilkin	Agr		* † Marshall
Weir, Esther	HEAgr	33	* † Marshall
Weir, Mary Jane	HEAgr	103	* † Marshall
Weiss, Alice Lucile	LAS		* † St. Louis, Missouri
Weisheit, Charles	LAS	64½	* † Jersey City, New Jersey
Weiss, John Nelson	Agr	100	* † Geneseo
Weissman, Joseph	Bus	66	* † Chicago
Weissman, Louis Ben	MedP	6½	* † Chicago
Weissman, Maurice	Bus	71½	* † Chicago
Weitte, Joseph John	Agr		* † Chicago
Weitzrecht, Helen Bernice	HELAS	96	* † Mitchell, Indiana
Welsh, Charles William	AE	35	* † Mattoon
Welsh, Everett Veigh	Arch	37½	* † Parsons, Kansas
Welsh, Jean Lillian	LAS	30	* † Rock Island
Welsh, Mary Mildred	LAS	100	* † Waukegan
Wellen, Margaret	LAS	33	* † Centralia
Wellen, Clarence William	Agr	116½	* † Rockford
Wells, William Henry	Bus		* † Chester
Weller, Chester Marcan	Agr ssP	8	* † Chicago
Weller, Herbert Clay	LAS	132½	* † Tuscola
Wellman, Orpha May, A.B., 1911	SS	133½	* † Champaign
Wells, Edwin Silas, Jr.	ME	36	* † River Forest
Wells, Harry Andrew	LG	119	* † Urbana
Wells, Herman B.	Bus		* † Lebanon, Indiana
Welsh, Clarence Laehr	IndA	43	* † St. Louis, Missouri
Welsh, Glen Eugene	Bank	27	* † Palestine
Welsh, Glen Lloyd	Agr	58½	* † Macomb
Welsh, William James	IndA	34	* † Chicago
Welsh, Floyd Lee	Bus		* † Elkhart, Indiana
Welton, Everett Leo	MedP	5	* † Plainville
Welton, Ralph Eugene	EE	56	* † Urbana
Welton, Adelaide Louise	LAS	33	* † Amboy
Wetshauer, Blanche Elizabeth	HEAgr	31	* † Warsaw
Werthe, Albert William	AE	30	* † Effingham
Werner, Elsie Ann	LAS (SS)	115	* † Saybrook
Werner, Paul	EE	30	* † Murphysboro
Werner, Harry William	ME	100½	* † Hollywood, California
Werner, Lizard Eugene	Bus (SS)	66½	* † Kahoka, Missouri
Werners, Carter Brinnens	Agr	38	* † Lewistown
Wertz, Bruce Wallace	Agr	62½	* † Abingdon
Wesemann, Adolph Henry	Bus	38	* † LaGrange
Wesman, Anna Marie	HELAS	26	* † Meekin
Wesman, Harold Everett	CE	45½	* † Rockford
Wesman, Walter Joel	Accy	70½	* † Rockford
Wesman, Katharine	LAS	61	* † LaCrosse, Wisconsin
West, Evelyn	LAS		* † Geneseo
West, Lloyd Alvin	EE	138½	* † Yates City
West, Stewart Benedict	Agr	63½	* † Geneseo

Westall, John Corey	Bus		† Summer
Westcott, Ellsworth Johnson	CE	111	* † Maywood
Westcott, Philip Spring	REE	123	* † Oak Park
Westerman, Lena Mary	SHHEd (SS)	94	* † Mound City
Westfall, James Harvey	SS	111½	* † Urbana
Westervelt, Neville	Mus		* † St. Louis, Missouri
Westervelt, Wade Clavis	Accy	18	* † Buda
Westlund, Arthur Peter	IndA	75	* † Chicago
Westman, Julia Harriet	LAS	60½	* † Chicago
Weston, John William	LAS	102	* † Peoria
Weston, Ralph Holland	CerE		* † Herrin
Wetherell, Edwin Henry	Arch	115	* † Des Moines, Iowa
Wettergren, Wesley Kern	LawP	73	* † Rockford
Wetterlund, Raymond John	CE	13½	* † Chicago
Wetzel, Arbon Read	SS	8½	* † Macomb
Wetzel, William Fay	EE		* † Taylorville
Weyer, Esther Latimer	LAS	66	* † Keokuk, Iowa
Whaling, Leslie Edgar	CE		* † Rockford
Whang, Jen King	Chem	5	* † Shanghai, China
Whang, Pao Kwai	Bank		* † Soochow, China
Wharmby, Ada	LAS	59	* † Champaign
Wharton, Russell Finley	EE	71	* † Moline
Wheatley, Charles Washington	ChE		* † Milwaukee, Wisconsin
Wheaton, Vernon Earl	ME	40½	* † Peoria
Wheeler, Frank White	AE		* † Evansville, Indiana
Wheeler, George Richmond	Bus	31	* † Bushnell
Wheeler, Helen Marguerite	HELAS (SS)	100	* † Champaign
Wheeler, Julia Frederica, Ph. B., 1919	LAS sp		* † E. Longmeadow, Massachusetts
Wheeler, Richard Lee	LAS		* † Tulsa, Oklahoma
Whelan, Orland	EE	55	* † Springfield
Whipple, Leonard Austin	CE	68½	* † Chicago
Whitaker, Claude Brown	Accy	63½	* † Joliet
Whitaker, Dorothy	Bus		* † Urbana
Whitaker, Frances Emily	LAS	30	* † Robinson
Whitaker, John Hopkins	Agr	49½	* † Granville
Whitaker, Louise	LAS	55½	* † Urbana
Whitchurch, Louise Augusta	HELAS	95½	* † Harrisburg
Whitcomb, Louis Kossuth	CE	64	* † Chicago
Whitcombe, Albert Bertrand	Bus	38	* † Dixon
White, Charles Milton	Bus		* † Chicago
White, Eileen	SS	8	* † Washburn
White, George Russell	Agr (SS)	50½	* † Georgetown
White, Herbert Bigham	Agr	72	* † Peoria
White, Herbert LeRoy	Chem	18	* † Little Rock, Arkansas
White, Ila Mildred	LAS	23	* † Winfield, Kansas
White, Irma Dell	SS	5	* † Peoria
White, James Haulden	Agr	30	* † Gibson City
White, Jeanne Winslow	Bus	64	* † St. Joseph, Missouri
White, Leonard Newton	CE	100	* † Little Rock, Arkansas
White, Mildred Elizabeth	LAS	23	* † Columbus, Georgia
White, Virginia	LAS		* † Niles, Michigan
White, Walter Howard	EE	64½	* † Joliet
White, William Lloyd	Jni (SS)	79½	* † Fowler, Indiana
Whitehouse, Edith Ursula	SS	2	* † Champaign
Whiteley, Fred Barney	Bus		* † Lombard
Whitesel, Harry Alfred	ME	38	* † Charleston
Whitford, Grace	LAS	106½	* † Clayton
Whitford, Mabel	LAS	110½	* † Clayton
Whitford, Neva May	LAS	60	* † Clayton
Whiting, Charles Edward	LAS	38	* † Rockford
Whiting, Raymond Titus	SS	27	* † Oak Park
Whitman, Lowell Acton	LAS	34½	* † Thomas, West Virginia
Whitnah, Nellie Roberta	LAS	100	* † Cuba
Whitnah, Verne Davisson	LawP	46	* † Canton
Whitten, George Arion	Arch	120½	* † Colquhater, Michigan
Whittenburg, Harry William	Agr sp		* † Kinmundy
Whittier, Herman James, Jr.	Bus	62½	* † Kansas City, Missouri
Whittier, Marshall Waldo	ME	94½	* † Kansas City, Missouri
Whittington, Ralph Samuel	EE	67½	* † Benton
Whittington, Ray Norton	Bus	98	* † Benton
Whittle, John Gillette	Agr	35	* † Decatur
Wickersham, Madelaine Lloyd	LAS	30	* † Evanston
Wickhorst, George Nickolas	ME		* † Aurora
Widmer, Roger Frederick	Agr		* † Dayton, Indiana
Wiemers, William Bernard	Bus	38	* † Douglas, Arizona
Wien, Ruth Irma	LAS		* † Chicago
Wier, John Sperry	Agr	35	* † Lacon
Wierman, Warren Pressley	Ath		* † Atwood
Wiersema, Henry	EE	111	* † Urbana
Wiese, Trazya Lucile	Mus	29	* † Long View
Wiggle, Jess Evan	EE		* † LeRoy
Wightman, Elwyn Fenlon	Bus		* † Grayslake
Wightman, Joseph Sidney	Bus	41	* † St. Louis, Missouri
Wilbur, Edward Cobb	MedP	8	* † Kalamazoo, Michigan
Wilbur, Grace	LAS sp		* † Chicago
Wilcox, Harold Childs	Bus	56	* † Sterling

Wilcox, Henry Mills	Bus	50	* † Chicago
Wilcox, Lucille Elizabeth	LAS	32	* † Champaign
Wilcox, Lyle Edgar	EE sp		* † McLean
Wild, Alfred Ames, Jr.	EE	78½	* † Kansas City, Missouri
Wilde, John Frank	AE	76½	* † River Forest
Wilder, Charles Lucas	SS	140½	* † Champaign
Wilder, Floyd Ernest	SS	3½	* † Mitchell, South Dakota
Wildeman, Harry Heynis	Bus	64	* † Chicago
Wildman, William Wendell	Agr		* † Selma, Ohio
Wiles, Dorothy Lindley	LAS	31	* † Chicago
Wiley, Frank Clarence	Bus	39	* † Earlville
Wiley, Russell Warren	AE	110½	* † Chicago
Wiley, Veryl Otis	Bus	4	* † Coffeyville, Kansas
Wilhelm, Arthur Charles Fred	Agr	29	* † Chicago
Wilhelm, Harry Iiram	Ath	31	* † Dayton, Ohio
Wilhelm, Thomas Joseph	Jnl		* † Peoria
Wilk, Harry Arthur, A.B., 1920	SS	132	* † Kinmundy
Wilkins, Margaret Rosalind	HELAS	29	* † Springfield
Wilkinson, Bert Keith	Bus	36½	* † Elburn
Wilkinson, Edwin Arthur	MedP sp	14½	* † Chicago
Wilkinson, Julia Faith	LAS		* † Urbana
Wilkinson, Louise Fern	LAS sp		* † Urbana
Wilkinson, Marjorie	LAS	31	* † Bethany
Will, Howard Austin	LawP	101	* † Urbana
Willard, Aliff Zara	Jnl	32	* † Decatur
Willard, Ruth Frances	LAS	117½	* † Decatur
Willbanks, Marion Arnold	Agr sp		* † Fancy Prairie
Willeford, Ruth Marylane	HELAS		* † Greenville
Willers, Robert William Gunnor	ChE	66	* † Chicago
Willett, Donald Biggar	CE	93%	* † Oak Park
Williams, Anna Beatrice	LAS	60½	* † Springfield
Williams, Bessye Mortlyn	LAS		* † Chatauqua
Williams, Carroll Mortimer	EE	26	* † Longmont, Colorado
Williams, Charles Blamphin	SS		* † Elmira, New York
Williams, Charlie Ray	EE		* † Marion
Williams, Clarence Michael Paul	AE	42	* † Madison, Wisconsin
Williams, Clifton	EE	8	* † Herrin
Williams, DeWitt Quincy	SS		* † Belle Plaine
Williams, Dorothy Evelyn	Jnl		* † Mishawaka, Indiana
Williams, Emily	HELAS	33	* † Champaign
Williams, Florence Jane	LAS (SS)	40	* † Champaign
Williams, George Roger	EE		* † Mishawaka, Indiana
Williams, Harold Gordon	Agr	27	* † Rockford
Williams, Harold Love	Bus		* † Urbana
Williams, Harry John	Accy		* † Herrin
Williams, Helen Gertrude	LAS	98	* † Westfield
Williams, Helen Marguerite	Bus	31	* † Mattoon
Williams, Henry Morris	ME	29	* † East Chicago, Indiana
Williams, Henry Walter	EE	49½	* † Urbana
Williams, J Wilburn	LAS		* † St. Louis, Missouri
Williams, Lewis Virgil	CE		* † St. Louis, Missouri
Williams, Lois Albertine	LAS	31	* † Fisher
Williams, Lula	Bus		* † Urbana
Williams, Marion Frances	Jnl	22	* † Chicago
Williams, Maude	SS	8	* † Urbana
Williams, Oliver Lockwood	IndA	58½	* † Lima, Ohio
Williams, Paul Beauchamp	SS		* † Farmersburg, Indiana
Williams, Paul Ransome	Jnl	76½	* † Aurora
Williams, Raymond Clendenin	LAS	83½	* † Ava
Williams, Robert Gilbert	Bus		* † LaGrange
Williams, Ruby	Bus	37	* † Shelbyville
Williams, Wanda Eleanor	HELAS	31½	* † Springfield
Williamson, Elward Tyre	MedP	26	* † Iola, Kansas
Williamson, Frank Martin	CE	28	* † Albion, Michigan
Williamson, Joseph Lindley	Bus	28	* † Jacksonville
Williamson, Kenney Ernest	Bus	104½	* † Champaign
Williamson, Marian	LAS	59½	* † Champaign
Williamson, Wayne Shepherd	MedP	8	* † Hillsboro
Willis, William Arthur	ChE	69½	* † Rock Island
Willmers, Arthur P	Bus	2½	* † Dubuque, Iowa
Willis, John Elliot	Agr		* † Watseka
Wilson, Ruth	LAS	93½	* † Clinton
Willy, John Knight	IndA	74½	* † Chicago
Wilner, Edmond Charles	Bus	82	* † Chicago
Wilson, Abraham Smith	CE	87½	* † Blairsown, New Jersey
Wilson, Arthur Jewell	ChE	40	* † Chicago
Wilson, Ashbel Roy	IndEd (SS)	97	* † Champaign
Wilson, Cecile	SS	82½	* † Carbondale
Wilson, David Dill	Agr	36	* † Winfield, Kansas
Wilson, Edward Elliott	Bus		* † Metropolis
Wilson, Pinis Arthur	SS	17½	* † Eldorado
Wilson, Frances Douglass	LAS	21	* † Urbana
Wilson, Francis Leckrone	EE		* † Centralia
Wilson, Frederick Samuel	LG	19	* † Olney
Wilson, George Weir	LG sp	29	* † Lake Forest
Wilson, Harold Clifford	Agr		* † Homewood

Wilson, Harold Edwin	ChE	34	* † Geneseo
Wilson, Harry, A.B., 1920	SS	130	* † Urbana
Wilson, Howard Thornton	Aer (SS)	61	* † Granville
Wilson, Imogene Fillmore	LAS	28	* † Chicago
Wilson, James Boone	IndA		* † Chicago
Wilson, John Hawley	Bus (SS)	105½	* † Peoria
Wilson, John Hays	Flor	36	* † New Castle, Pennsylvania
Wilson, John Henry	ME		* † Olney
Wilson, John Nicodemus	SS		* † Tilghman, Maryland
Wilson, Keith Reber	EE		* † Champaign
Wilson, Kenneth Day	Bus		* † Clinton
Wilson, Lewis Bender	Law	57½	* † Rock Island
Wilson, Lois Josephine	Bus	99½	* † Champaign
Wilson, Marion Graves	Arch	130	* † Chicago
Wilson, Martha Almellia	HEAgr		* † Indianapolis, Indiana
Wilson, Maude Frances	LAS		* † London, England
Wilson, Paul Rutledge	IndA		* † Hinsdale
Wilson, Paul Shannon	Chem		* † Watertown, New York
Wilson, Perry Robert	ChE	65½	* † Manhattan
Wilson, Raymond Milton	EE	35	* † Newton
Wilson, Roger Albert	ME		* † Morris
Wilson, Stanley Raymond	ME	59½	* † Chicago
Wilson, Thomas Harry	Agr		* † Woodstock
Wilson, Wallace Wilson	ME	32	* † Oak Park
Wilson, Wesley David	CE	87½	* † Taylorville
Wilson, Wilbur M	Mus sp		* † West Liberty, Iowa
Wilton, Harry Maurice	MinE	108	* † Chicago
Wilton, Oliver Nenis	ME	106½	* † Lake Villa
Winans, Ruth	LAS	27	* † Olney
Windsor, Laurence Charles	SS	18	* † Batavia
Windsor, Margaret	LAS		* † Urbana
Windt, Paul G	MSE		* † Dallas, Texas
Wine, Florence Maurine	LG		* † Mt. Morris
Wine, Frances Esther	LAS	87½	* † Chicago
Wine, Lois Marie	Jnl	97	* † Mt. Morris
Wingert, Betty	LAS	100½	* † Dixon
Wingert, Edward Boardman	LAS	5½	* † Dixon
Winholtz, Sylva Bell	Mus sp		* † Berwyn
Winkelman, Emma Elsie	HEAgr	43	* † Keokuk, Iowa
Winklepleck, Velda Pearle	LAS	33	* † Manitoba, Canada
Winkler, Joseph Fred	CE		* † Chicago
Winn, Fernie Abbie	HEAgr	97½	* † Richland Center, Wisconsin
Winn, Lawrence Lyle	LawP	18	* † Richmond
Winn, Marian Grace	HELAS	35½	* † Rockford
Winsborough, Calvert Swing	LG	78	* † St. Louis, Missouri
Winter, Floyd Leslie	LAS	57	* † Wenona
Winterholter, George John	Bus		* † Lily Lake
Winters, Robert Wayne	Agr	35	* † Walnut
Winterscheid, Kenneth Ervin	Agr	34½	* † Hennepin
Wirt, Jenness Mary	HEAgr	51½	* † Rockville, Indiana
Wirth, Bernhard Otto	ME		* † Chicago
Wirth, Ralph Jacob	AE	70½	* † Welton Junction, Iowa
Wirth, Sidney Raymond	Bus	34	* † Oak Park
Wise, Lucien	Agr		* † Tamalco
Wisegarver, Cleo	SS	4	* † Champaign
Wisegarver, Elizabeth Pauline, A.B., 1917	SS	134	* † Champaign
Wisely, Edson Wright	LAS	100	* † Terre Haute, Indiana
Wiseman, Ruth	HELAS		* † Longview
Wiseman, Vivian	LAS		* † Longview
Wissen, Vernet Theodore	Accy	30	* † Rockford
Wissmath, Evelyn Wilhelmina	HEAgr	32	* † St. Louis, Missouri
Wisthuff, Edith Elizabeth	HELAS		* † Sibley
With, Thoroff Edwin	ME		* † Joliet
Withrow, Ruth Purdy	LAS		* † Springfield
Witt, Frank Jacob	EE	35	* † Sidney
Witte, Paul Frederick	ME	57½	* † Louisville, Kentucky
Wittick, Eugene Charles	ME	12	* † Moline
Wittick, Henry Ayres	RT	85½	* † Peoria
Wittick, Herbert Edward	Ins		* † Peoria
Wittmann, Robert Alfred	ME	72½	* † Chicago
Witwer, Frederick Minor	Bank	63½	* † Effingham
Witwer, Martha Nell	LAS		* † Effingham
Woare, Edward Martin	Bus	31½	* † Harvey
Woelfel, Everett Albert	Bus	124	* † Morris
Woolfersheim, William Arthur	Bus	3	* † Chicago
Wohlfarth, Louise	LAS sp	15	* † Champaign
Wolcott, Katherine Minard	HELAS	65	* † Batavia
Wold, Leaman Archer	SS	91½	* † Rockford
Wold, Robert Morlius	Bus		* † River Forest
Wolf, Alexander	Chem	69½	* † Chicago
Wolf, Alva Christian	LawP		* † Kankakee
Wolf, Fred Orville	Bus	31	* † San Bernardino, California
Wolfe, Donald	Agr	30½	* † Arlington
Wolfe, Grace Catherine	LAS	12	* † Chicago
Wolfe, Harold Eugene	ME	8	* † Tamara

Wolfe, Helen Alexandria	LAS	60	* †	LaCrosse, Wisconsin
Wolfenberger, Charles Marion	Chem		* †	Chicago
Wolff, Bernice Serena	HELAS	32	* †	Urbana
Wolff, David Alexander	Law		* †	Champaign
Wolff, Samuel Saul	EE	73½	* †	Chicago
Wolfram, Harold George	CerE	41	* †	Des Plaines
Wolgast, Pauline Johanna	HELAS	57	* †	Danforth
Wolk, Wade Franklin	CE	48½	* †	El Paso
Wolter, Julius William	LawP	97½	* †	Lemont
Wong, Keng Woon	LAS	114½	* †	Canlon, China
Wong, Po Ki	Chem	42	* †	Hong Kong, China
Wood, Aileen	SS	8½		DeKalb
Wood, Annetta Lois	LAS	66½	* †	Decatur
Wood, Edythe Townes	LAS		* †	Champaign
Wood, Eugene William	C&L		* †	Chicago
Wood, Isabel Frances	LAS		* †	Girard
Wood, Paul Washington	CE	117½	* †	Carrollton
Woodbury, Mary	SS			Campbell, California
Woodley, Ralph	LAS	4	*	Highland Park
Woodruff, Helen Blanche	Jnl	59½	* †	Savanna
Woodruff, Minus Elijah	ME		* †	Indianapolis, Indiana
Woods, Lucy	LAS	64	* †	White Hall
Woods, Orlo Wayne	ChE	8	* †	Bloomington
Woods, Richard Northall	CE		* †	Rockford
Woods, Sara Lucilla, A.B., 1920	Lib		* †	Princeton, Indiana
Woods, Wilbur James	Bus	71	* †	Orange, California
Woodward, Harold Christopher	LAS		* †	Ottawa
Woodward, Marion Hannah	LAS		* †	Oak Park
Woodward, Stewart Gray	IndEd		* †	Chicago
Woolbert, Robert Gale	LAS (SS)	4	* †	Urbana
Woolery, Warren Wycliffe	AE	14½	*	Champaign
Woolford, Joseph Sidney	LAS	39½	* †	Sparta
Woolley, Russell Brooks	Bus	50	* †	Champaign
Wooters, Donald Reinhart	Agr		* †	Edinburg
Worley, John Clark	ME	34½	* †	Lewistown
Wormley, Lorentz Englehart	MinE	104½	* †	Kinmundy
Worthington, Frank Lancaster	IndA (SS)	104	* †	Doylestown, Pennsylvania
Worthington, Leslie Berry	Bus	34	* †	Witt
Woulfe, Henry Francis	Bus	66	* †	Chicago
Wright, Abbie	Mus		* †	Manteno
Wright, Anna Joe	LAS		* †	Havana
Wright, Clarence Salmon	ME	104½	* †	Oak Park
Wright, Francis Marion	ME	128½	* †	Urbana
Wright, Genevieve Clarissa	HEAgr	103½	* †	Chicago
Wright, Harold Abbott	ME	13	* †	Oak Park
Wright, Helen Mary	LAS	34	* †	Champaign
Wright, Homer Franklin	Accy		* †	Paris
Wright, Howard Marion	LAS	28	* †	Champaign
Wright, Karl Theodore	Agr		* †	Moweaqua
Wright, Kenton Robert	ME	33	* †	Urbana
Wright, Robert Dukes	LAS	60	* †	Ravenna, Ohio
Wright, Robert Lincoln	Voc esp (SS)	35	* †	Greenville
Wrisley, Lawrence Norton	Bus	34	* †	Chicago
Wu, Lih Ming	ChE	29	* †	Shanghai, China
Wu, Te Yuan	ForC		* †	Peking, China
Wuesteman, Adelbert Earnest	ME	64½	* †	Champaign
Wunderlich, Carl Lester	Bus	8	* †	South Bend, Indiana
Wunderlich, Donald Ferris	Bus	28	* †	Dubuque, Iowa
Wurst, Henry Ebert	Bus	47½	* †	Quincy
Wurst, Katharine	LAS		* †	Davenport, Iowa
Wurtsbaugh, Leroy Alfred	SS	17	* †	Lawrenceville
Wyatt, Mary Margaret	SS	5		Carlier
Wyne, Eleanor Elizabeth	LAS	96	* †	Vermont
Wyninger, Evangeline Day	LAS		* †	Urbana
Yackey, George Frederic	ME	37	* †	St. Louis, Missouri
Yackey, Harold Hilgard	ME	37	* †	St. Louis, Missouri
Yackle, Stella May	SS	24½	* †	Nokomis
Yale, Charles Ernest	Agr	83	* †	Aurora
Yancey, Myra Lois	LAS	91	* †	Colorado Springs, Colorado
Yantis, Ruth	LAS	16	* †	Urbana
Yao, David S	RME		* †	Kiang Su, China
Yarrow, Paul Warren	Bus		* †	Chicago
Yates, Howard Noble	ForC	75	* †	Buffalo, New York
Yates, John Edwards	LawP		* †	Taylorville
Yates, Stella Day	SS	14		Baylis
Yeager, Dean Clifford	EE	23	* †	Lena
Yeager, Harold Caldwell	LAS	113	* †	Maywood
Yeager, Lloyd Hervey	ME		* †	Douglas, Arizona
Yeager, Lowell Camden	EE	166½	* †	Cheyenne, Wyoming
Yearsley, Mary	LAS	20	* †	Urbana
Yeck, Raymond Darling	SS	8		Roanoke
Yeh, Henry Hsing Chin	Bank			Mukden, China
Yeh, Kung Huei	ME (SS)	38	* †	Tientsin, China
Yoder, Antoinette Lucile	LAS	4	* †	Bryan, Ohio
York, Mrs. Cleta Price	SS	8		Shattuc
Yost, Howard Allen, A.B., 1920	SS	135		Kansas City, Missouri

Young, Arthur Augustus	LAS	37	* †	Trinidad, B. W. I.
Young, Arthur White	ChE		* †	Kokomo, Indiana
Young, Carl Walter	Agr	½	* †	Marissa
Young, Daisy Belle	Bus		* †	Allon
Young, David Bryden	ME		* †	Allon
Young, Everett Lewis	Agr	32	* †	Chillicothe
Young, Garred Francis	CE (SS)	74	* †	Springfield
Young, George Clair	EE		* †	Carterville
Young, Geraldene Louise	HEAgr (SS)	29	* †	Pawnee
Young, Gilman Boardman	AE		* †	Toulon
Young, Gordon Mark	Agr sp	12½	* †	Centralia
Young, Harold Dwight	Agr		* †	Hillsboro
Young, Marjorie Pearl	HEAgr	29	* †	Laurenceville
Young, Russell	EE	30	* †	Rossville
Young, Russell John	Arch	35	* †	Kokomo, Indiana
Young, William Clyde	Agr	8	* †	Geneseo
Young, William Foster, Jr.	Jul	28	* †	Chicago
Young, William Morris	EE	101	* †	Omaha, Nebraska
Youngblood, Robert Augustus	Bus		* †	Aurora
Younge, George Herbig	LAS		* †	Peoria
Youngman, Wilbur Hughes	FOAM (SS)	110	* †	Santa Paula, California
Youns, Donald Heard	ME	5½	* †	Freeport
Yu, Chi Chuan	LAS (SS)	88	* †	Washington, D. C.
Yu, Jih Chuan	RCE	108½	* †	Washington, D. C.
Yuan, Tsung Tok	Agr		†	Canton, China
Yuen, Kwok Sham	LAS	92½	* †	Canton, China
Yungck, Leslie Edward	Bus		* †	Allon
Yutzy, Viberta Nellie	LAS		* †	Lebanon, Indiana
Zahorik, Edward John	Ath	7	* †	Milwaukee, Wisconsin
Zaleski, John Thaddeus	ForC	7½	* †	Chicago
Zartman, Castle W	Bus	72	* †	Roanoke, Indiana
Zasloff, Louis David	Arch		* †	Chicago
Zeek, Leo Donnell	EE (SS)	75½	* †	Springfield
Zehr, Henry Gesa	ME	111	* †	St. Louis, Missouri
Zeiders, Emil Philip	Agr	103	* †	Mansfield
Zeilman, Charles Kantz	Ath	82	* †	Guiderland, New York
Zeki, Ali Ayet	EE		* †	Constantinople, Turkey
Zellhoefer, Glenn Faber	LAS (SS)	102	* †	LeRoy
Zelvan, Yervant	Agr (SS)	40	* †	Cilicia, Asia
Zent, Lester Dale	AE		* †	South Bend, Indiana
Zia, Youssouf Abraham	EE		†	Constantinople, Turkey
Ziegler, Arthur William	EE	124	* †	East St. Louis
Ziemer, Gregor Athalwin	LAS	69	* †	Allamont
Zieroth, Edward Henry	Agr	105	* †	Chicago
Zika, Marie Lydia	HEAgr	100	* †	Chicago
Zimmer, Ernst Linn	CE	107½	* †	Kansas City, Missouri
Zimmer, John Warner	Accy		* †	Gibson City
Zimmer, Rita Aileen	LAS	22	* †	Gibson City
Zimmerman, George Wallace	Ind.A		†	Champaign
Zimmerman, John Harvey	ME	86	* †	Chicago
Zimmerman, Nelson John	Law	2	* †	Efingham
Zimmerman, Pauline	HELAS	27	* †	Anderson, Indiana
Zimmerman, Ruby Camille	LAS	84	* †	Oakland
Zimmermann, Albert Jobst	Bus	62½	* †	Peoria
Zink, Frank Joseph	Accy	2½	* †	Indianapolis, Indiana
Zink, Hal Humphrey	EE	36	* †	Kansas
Zinn, Kenyon Cooper	CerE	42	* †	Chicago
Zolotkoff, Albert Herzl	ChE	71½	* †	Chicago
Zuckerman, Joseph Samuel	ME	68	* †	Chicago
Zulueta, Agustin	Bus sp (SS)	3	* †	Santiago, Chile

## COLLEGE OF MEDICINE

Name	Year	Residence
Abrahams, Samuel	3	Oblong
Abramson, William Frederick	1	Chicago
Adler, Julius	2	Chicago
Albach, Maurice	2	Chicago
Albrecht, Paulus Gerhard, Ph.D.	2	Chicago
Alcivar, Ernest	2	New York, N. Y.
Alesen, Lewis Albert, B.S.	4	Detroit, Michigan
Anderson, Bertha Maria Gunmilla, Pd.B.	3	Denver, Colorado
Apple, Carl	2	Chicago
Aries, Philip, B.S.	4	Chicago
Armitage, Ralph Boyce	1	Lawrenceville
Astell, Louis Alexander	1	Homer
Bacon, Carl Alfons	4	Chicago
Bailey, Bayard Melvin, B.S.	3	Loveland, Colorado
Baker, Eugene Lester	2	Chicago
Baumgartner, George John	2	Chicago

\*Numbers indicate first, second, third and fourth year of the medical course; G, graduate student in medical science.

Bendeke, Edle Lillian	4	Mentor, Minnesota
Berman, Simeon Leo, B.S.	3	Chicago
Bernheimer, L. Benno	4	Terre Haute, Indiana
Biggelstone, Harry Clinton, A.B.	1	Chicago
Block, Coleman Alex, B.S.	3	Des Moines, Iowa
Bloom, Arthur Reuben, B.S.	3	Chicago
Bollman, Jesse Louis, A.B., M.S.	3	Springfield
Bolotin, Max T.	1	Chicago
Boner, Albert Jay	3	Chicago
Brams, Julius, B.S.	4	Chicago
Bratrude, Ainos Preston	2	St. James, Minnesota
Bronson, Paul Jones, B.S.	4	Terre Haute, Indiana
Bronston, Albert Sam	1	Detroit, Michigan
Brough, Glen Amos	1	Bushnell
Brown, Hyman Nathanson	1	Chicago
Browne, William Harcourt, B.S.	4	Chicago
Buhrman, William Lane, B.S.	3	Nashville
Burkett, Richard Clare, B.S.	4	Orange, California
Burst, William	3	Chicago
Byers, William Mitchell	2	Spokane, Washington
Caron, Robert Paul	2	Kankakee
Charpier, Leonard Louis, B.S.	3	Chicago
Chavis, Alex	1	Chicago
Chenoweth, Frank Leland, B.S.	4	Mason City
Cirlin, Marcus	3	New York, New York
Cohen, Abe Wilbur	2	St. Paul, Minnesota
Coleman, John Spurgeon, B.S.	4	Halstead, Kansas
Collins, Loren Leslie	1	Chicago
Colyer, Raymond G.	1	Carbondale
Connell, Charles William	1	Farley, Iowa
Conrad, Clyde Kenneth	1	Urbana
Cooper, Arthur Reuben, A.B., A.M., Ph.D.	1	Chicago
Crabtree, Joe P.	1	Cairo
Crawford, Neal Dow, B.S.	4	Luverne, Minnesota
Crow, Robert Neil	1	Carrollton
D'Alcorn, Ernest Napoleon, B.S.	4	Chicago
Davidson, Thorald Edward, B.S.	2	Swaledale, Iowa
Davis, Irwin	1	Bellerive
Davis, John Dwight, A.B.	4	Genoa, Nebraska
De Freitas, Clement	2	Guano, South America
Deitchman, Morris Michael	1	Chicago
Dennis, Howard Olney, B.S.	4	Cloris, New Mexico
Dessent, Robert	2	Chicago
Deuss, Hugo Otto	1	Chicago
Deutsch, Isadore Herman	1	Chicago
Dewey, Jay Reed	3	Moville, Iowa
Dona, Pedro Joaquin, B.S.	4	Chicago
Donaly, Marie Ruby	3	Carterville
Dooley, Ralph Dean	1	Marion, Indiana
Doolen, Glenn Wesley, B.S.	3	Bondville
Drues, Isadore Abraham	3	Chicago
Duggan, Willard Maurice	1	Dubuque, Iowa
Dyett, Walter Henry	1	Chicago
Eddin, Louis, B.S.	3	Chicago
Edwards, Eugene Albert	2	South Whitley, Indiana
Edwards, Howard Milton	2	Lee
Ehrhardt, Oliver Earl	1	Beardstown
Elfeld, Persis, B.S.	3	Arlington Heights
Elliott, William Gibson	1	Escanaba, Michigan
Epstein, David	2	Chicago
Eshman, Louis	1	Chicago
Etherton, Fred Snider	1	Carbondale
Ettleson, Abraham	1	Chicago
Eye, Charles Harold	1	Wyoming, Iowa
Faxon, Donald Eugene, B.S.	3	Sandwich
Feldman, Louis	2	Chicago
Finkle, Albert Mark	1	Chicago
Fischer, Jacob	1	Chicago
Fitch, Franklin Ransom, B.S.	4	Chicago
Fleischner, Julius	3	Chicago
Flynn, John Francis	1	Chicago
Flynn, Robert William	1	Chicago
Focke, William John, B.S.	4	Chicago
Fox, Chester Philip	1	Chicago
Frenzel, Walter Charles	3	Wausau, Wisconsin
Frye, Lawrence	1	Palatine
Gainer, John Fisher, B.S.	4	Palatine
Gewertz, Milton B.	1	Whiting, Indiana
Gilbert, Ivan	1	Oakland
Glassoff, George Samuel	1	Chicago
Glickman, Leo Grant	1	Chicago
Groedel, Russell Walter	1	Chicago
Groff, Charles Weer	1	Streator
Goddensen, Max Julian	2	Davenport, Iowa
Goldberg, Bernard	4	Chicago
Goodwin, Marcus	2	Chicago



Gordon, Harry, B.S.	4	Chicago
Gorham, Wilbur Clark	1	Fort Wayne, Indiana
Gormley, John Harry	1	Evanston
Greengard, Joseph	2	Chicago
Groos, Harold Quinten	2	Escanaba, Michigan
Groot, James Tobias	2	Chicago
Groves, Robert Leroy	1	Chicago
Guilder, Ruth Pierce	4	Chicago
Guttman, Maurice	1	Chicago
Hadden, Shirley Louis	2	Chicago
Hahn, James Pendleton	2	Greenville, South Carolina
Halpern, Louis Joseph	1	Chicago
Harris, Richard August	2	Quincy
Harris, Sigil Clance	2	Wilmet, South Dakota
Hartzler, Archie David	2	Belleville, Pennsylvania
Hebeisen, Milton Boyce, B.S.	4	Carver, Minnesota
Heinekamp, Walter J R, B.S.	4	Chicago
Hershey, Charles Owen	4	La Junta, Colorado
Hoffman, Ralph Wesley, B.S.	4	Waterloo, Iowa
Horn, Isadore	2	Chicago
Horsky, Brooke	1	Helena, Montana
Hoskins, James Howard	2	Rolls, North Dakota
Hospers, Anthony	4	Pella, Iowa
Huie, George Fred	1	Evanston
Hughes, Clarence Orville, B.S.	3	White Heath
Imbrioski, Stanley J	2	Chicago
Janicki, Stanley Florin	2	Chicago
Jenkins, Lyman Hall	1	Carthage
Jensen, Ingvald, B.S.	4	Chicago
Jerkowsky, Morris Solomon	1	Chicago
Jewell, Harrison Bonwell, B.S.	4	Coon Rapids, Iowa
Jewell, John Holly	4	Coon Rapids, Iowa
Jongewaard, Jeanette	3	Orange City, Iowa
Johnson, Howard Reynolds	1	Bishop Hill
Johnson, John Robert	1	Decatur
Johnston, James Paul	4	Hampton, Iowa
Jones, Arthur Pembroke	1	Bradford
Josefski, Raymond Julian	3	Maxbass, North Dakota
Kaplan, Samuel	1	Chicago
Karbelnig, Morris	2	Chicago
Karlin, Isaac	2	Chicago
Kellogg, Douglas Sheldon	2	Des Moines, Iowa
Kelly, Edward Joseph	2	Chicago
Kelly, John Francis	2	Vincennes, Indiana
Kenny, William Lloyd	1	Pontiac
King, Paz G (Mrs.)	2	Chicago
Klein, Jacob	2	Chicago
Knowles, Horace Earle	1	LaGrange
Kordenat, Ralph August, B.S.	4	Chicago
Kraft, Adolph, B.S.	4	Gilman
Kronenberg, Milton	1	Chicago
Leibe, Joseph E., B.S.	4	Chicago
Lans, Nathaniel Benjamin	2	Chicago
Lansche, Elmer Arnold	2	Brighton
Lasofsky, Benjamin	1	Chicago
Leitsch, Neil McLean	1	Toulon
Lenit, Harold Walter	2	Chicago
Lenth, Vincent James Thomas	1	Evanston
Lenzen, Aloysius Francis, A.B.	1	Peru
Lerche, Thorleif Iverson, D.D.S.	1	Chicago
Levin, Abe Louis	4	Chicago
Levin, Benjamin Mordecai	2	Chicago
Lifvendahl, Richard Axel	1	Chicago
Linsky, Morris	1	Chicago
Lintner, Roy Christian	2	Glen Ellyn
Little, Ethel Esther, B.S.	4	Champaign
Litton, Louis	2	Chicago
Livingston, George Shaynin, B.S.	3	Chicago
Lorfeld, Gerhard William	2	Sheboygan, Wisconsin
Loughery, Harold Barker, B.S.	4	Palestine
Lucas, Frank Blackburn	2	Chicago
McGrath, Floyd Lawrence	2	Savanna
McIntire, Emery J	2	Kansas City, Missouri
McNally, Andrew	1	Chicago
Magill, Clark Russell William	2	Sullivan
Maher, Chauncey Carter	2	Payson
Maizus, Saul Hyman	3	Chicago
Mandel, Harry	2	Chicago
Mandel, Robert Meyer, B.S.	3	Chicago
Marcusson, William Beringer, Jr.	1	Chicago
Margolis, Jesse	1	Uniontown, Pennsylvania
Maryan, Harry I	3	Chicago
Masterton, Edward Lincoln	3	Chicago
Mathre, Albert Ilmer	2	Chicago
Meals, Robert Woodruff	1	Peoria
Merchant, Henry Alpheus	2	Lexington, Kentucky

Merrill, Don Clayton, B.S.	4	Richmond, Utah
Meyer, Raymond John	1	Chicago
Meyer, William P.	1	Chicago
Mills, Morton Joseph	2	Chicago
Mitchell, Raymond Ervin	4	Gary, Indiana
Moeur, John Kelly	3	Tempe, Arizona
Monroe, Paul Burns	3	Fond du Lac, Wisconsin
Montezon, Apolonio Fermin	2	Tacloban, Philippine Islands
Mora, Jacob Morton	1	Chicago
Mroz, Rudolph, B.S.	4	Chicago
Mulcahy, John P.	1	Chicago
Mulfinger, Carl Leonard, B.S.	4	Chicago
Myers, William Henry, B.S.	3	Coal Valley
Nasatir, Azor Vietor	2	Los Angeles, California
Nemerfsky, Jacob	4	Chicago
Newman, Melvin Max	2	Chicago
Nielson, Johannes	2	Chicago
Nickels, Arnold Carl, B.S.	4	Watertown, Wisconsin
Nowlin, Owen Wendell Emen	1	Farmer City
Nystrom, Charles Gustav	1	Chicago
O'Hara, Clarence M.	1	Madison, Wisconsin
Owens, Celia Evelyn	2	Battle Creek, Michigan
Parkhill, Homer Lewey	2	Chicago
Perman, Louis W.	1	New York, New York
Piard, Arthur Paul	1	Chicago
Pitt, Gaudencio E.	2	Cagayan, Philippine Islands
Pilka, Herman, B.S.	3	Chicago
Pinkerton, Roger Edmond, B.S., A.B.	4	Pawnee City, Nebraska
Plice, Samuel Glenn, B.S.	4	Chicago
Pontius, Guy Victor, B.S.	3	Rochester, Indiana
Ponzer, Emma	1	Henry
Potts, Albert LeRoy, B.S.	3	Honey Bend
Poulson, Charles T.	1	Armour, South Dakota
Prescott, Manfred Ullman, B.S.	3	Oak Park
Prilla, Eysay, B.S.	3	Chicago
Przypyszny, Casimir, B.S.	4	Chicago
Quackenbush, Charles Verbeck	1	Chicago
Raginsky, Oscar	4	Aurora
Ralston, John Francis	2	Chicago
Rappaport, Benjamin, B.S.	3	Rock Island
Reeves, Dwight Coleman	2	Chicago
Reinhard, Otto Andrew, B.S.	2	Monticello
Resnik, Tobias, B.S.	3	Cullom
Rettig, Frederick August, B.S.	3	Chicago
Reuther, Theodore Ferdinand	4	Chicago
Richmond, Frank, B.S.	2	Effingham
Rissinger, Arthur Joe	4	Chicago
Roberts, Dewey Minnis	3	Mason City
Robertson, Robert Crawford	1	Lakeview
Robertson, Thomas Sanderson	1	Coulterville
Rogers, Jesse P.	1	Chicago
Rosenberg, Maurice Joseph, B.S.	1	Pittsburgh, Pennsylvania
Rosenbloom, David	4	Chicago
Rost, Theodore August, B.S.	1	Los Angeles, California
Rozinsky, Julius, B.S.	4	Petersburg
Rulenstein, Joseph	4	Chicago
Rubin, Henry Harry, B.S.	1	Chicago
Rubin, Irwin, B.S.	3	Chicago
Rudnick, Dorrin Fred	4	Chicago
Rush, Paul White, B.S.	4	Chicago
Rurledge, James Hirst, B.S.	4	Detroit
Saelhof, Clarence Charles, B.S.	3	Farm City
Saltiel, Thomas Paine	4	Chicago
Schafer, Robert	2	Chicago
Schechter, William	1	Chicago
Schermeister, Harold Edward	2	Chicago
Schiff, Abe Leo	1	River Forest
Schinkberg, David	1	Chicago
Schirmer, Elizabeth Helen	1	Chicago
Schroeder, Robert Henry, B.S.	1	Chicago
Shapiro, Irving Joseph, B.S.	4	Nashville
Shapiro, Sherman Lawrence	4	Chicago
Shelton, George C.	1	Chicago
Singer, Harry	3	Taylor, Arkansas
Sinai, Leah (Mrs.)	1	Chicago
Smetkal, Frank John	3	Chicago
Smith, Annie Thompson, A.M., A.B.	1	Chicago
Smith, Beulah Marie	3	Durham, North Carolina
Smith, Charles R.	3	Chicago
Smith, John Frederick	1	Georgetown
Snaylev, Ralph B.	2	Montpelier, Ohio
Sodaro, Joseph Clarence	1	Sterling
Soloway, Herman Milton	2	Aurora
Spector, Hyman, B.S.	4	Minneapolis, Minnesota
Spiesman, Irwin Gabriel, B.S.	4	Chicago
Stackhouse, Effie Olive	4	Chicago
	1	Chicago

Stewart, Frank, A.B.	4	Champaign
Stoops, Richard Boothby	2	Ipavia
Streicher, Michael Henry	1	Chicago
Sutch, Vincent J	1	Chicago
Testin, Henry	4	Joliet
Thomas, Joseph Hancock	1	New Douglas
Thornton, Maurice John	1	South Bend, Indiana
Thurston, Alvin Stewart	1	Chicago
Tolpin, Samuel, B.S.	3	Chicago
Traisman, Alfred Stanley, B.S.	4	Chicago
Tranter, Paul W.	2	Armour, South Dakota
Tygett, Glenn Joseph	2	Jonesboro
Uthoff, Carl Joseph	1	Chicago
Vener, Hyman	1	Los Angeles, California
Ventress, Ward Huston, B.S.	3	Monmouth
Van Pelt, Theodore Ross, B.S.	4	State Center, Iowa
Warmolts, Earle Hugh	1	Oregon
Warren, Homer Samuel, Jr., B.S.	4	Chicago
Wead, John Trimmer	2	Wyoming
Wehringer, Henry George	2	Chicago
Weiner, Samuel	1	Chicago
Welensky, David Arthur, B.S.	3	Chicago
Wessel, Marion	1	Chicago
Wessels, Marie	2	Quincy
Weber, Leonard Fred	4	Gilman
White, Mary Agnes	2	Chicago
Wilke, Carl August	2	Blue Island
Wisch, Louis J	4	Chicago
Wood, Cordelle Atherton	2	Amboy
Wood, Wilbur Stuart	1	Decatur
Wright, Elizabeth Belle Smith (Mrs.)	2	Carthage
Yaha, Mohammed	2	Aramon, Syria
Yancovsky, Samuel	1	Chicago
Yockey, John Clarence	1	Monticello
Yonker, William, B.S.	4	Chicago
Young, Edmund V.	1	Aurora
Zeitlin, Nathan, B.S.	3	Chicago
Zulaybar, Sofronio, B.S.	4	Lilio, Philippine Islands

COLLEGE OF DENTISTRY

Name	Year	Residence
Anderson, Melvin Edward	2	Lynn Center
Arado, May	2	Chicago
Armentrout, Russell	1	Pittsfield
Asher, Sidney	1	Chicago
Baewsky, Morris	2	Chicago
Bancroft, John Wesley	4	Greenup
Barnes, George Francis	2	Whitehall, Montana
Barton, William Henry	2	Litchfield
Baxter, Robert Knight	1	Chicago
Beam, Maurice Jerome	1	Canton
Berger, Maurice	1	Chicago
Berkhaug, Trygve John	1	Chicago
Beshoar, Daniel L	3	Burnettes Creek, Indiana
Black, Russell F	3	Beardstown
Bird, Boyden	2	Springville, Utah
Bond, Merle E	1	Farina
Bone, George Dewey	2	Homer
Bonomo, Frank Paul <sup>1</sup>	1	Chicago
Brazda, Ctimir Silas	1	Oak Park
Brinkman, Henry	4	Elgin
Brown, Bradford	3	Chicago
Brunson, Carl Littlefield	1	Ft. Wayne, Indiana
Buchmiller, Leroy	2	Deweyville, Utah
Butler, James Arthur	2	Chicago
Byrne, Webster Edward	1	Harrisburg
Call, Charles Clarence	2	Springfield
Capenegro, Sebastian	2	Chicago
Chapman, Joseph	4	Chicago
Claffin, Roland S	1	Mondovi, Wisconsin
Clark, Charles Shelby	4	South Bend, Indiana
Classen, Edwin	4	Gilman
Cleveland, Charles Pearson	1	Bushnell
Clinite, Harold F	2	Rochelle
Clothier, Ernest Jacob	1	Rockford
Coe, Emmons Sylvester, B.S.	4	Bucyrus, Ohio
Crawshaw, Earl Harwood	1	Chicago
Crismyre, Vernon Carroll	1	Chicago
Dahlke, Walter Gilbert	4	Westfield, Wisconsin
Danziger, Frederick	1	Chicago

<sup>1</sup>Not in attendance

Davis, Thomas Edward	1	Benton
De Larco, Joseph E.	1	Chicago
Dietz, Reuben Henry	1	Mapleton, Minnesota
Doty, Harry R.	2	Amboy
Drell, Benjamin	1	Chicago
Droher, Philip	2	St. Joseph, Missouri
Drummond, Harold Arthur	1	Chicago
Dunlap, D. Keith	3	Ripon, Wisconsin
Dunn, Robert Winlock	4	Beardstown
Dyer, Louis A.	4	Danville
Eisenbrand, George F.	2	Hubbard Woods
Elfenbaum, Hyman	3	Chicago
Englejohn, Elmer H.	1	Bloomington
Ewell, Willis G.	1	Chicago
Falotica, George Anthony	1	Chicago
Feinberg, Edward D.	1	Chicago
Finnegan, John	3	Homer
Flood, Thomas Edwin	1	Columbus, Ohio
Frampton, Frank Roy	2	Pleasant Grove, Utah
Gold, Abe Elmer	2	Chicago
Goldman, Max	2	Chicago
Goldman, Bernard	2	Chicago
Goldstein, Abraham	1	Chicago
Grassle, Lee Clark	1	Oak Park
Gray, William Lewis	2	Lafayette, Indiana
Goodfriend, Ervin	4	Chicago
Griseto, Victor L.	1	Chicago
Gould, Seymour Noah	2	Chicago
Greenwood, Robert G.	4	Chicago
Grief, Uhlman	4	St. Joseph, Missouri
Grover, Norman Herbert	1	Logansport, Indiana
Hall, Kenneth Alexander	2	Hornell, New York
Hallgren, Edward Rudolph	1	Chicago
Harris, Michael N.	2	Peoria
Hartford, Winfield Stephen	1	Gibson City
Harvey, Ward Winfield	3	Bridgewater, South Dakota
Harvey, Ralph Frame, B.S.	3	Chicago
Hedges, Le Roy Ellis	1	Chicago
Heller, Max	1	Chicago
Hermes, Elmer A.	3	Aurora
Hevesh, Joseph, A.M.	3	Chicago
Hill, Clifton Jerome	2	Benton
Hines, Harry C.	3	Champaign
Hoffman, Gilden Lee	1	Chicago
Hohman, Ralph H.	3	Nashville
Holt, Leonard C.	2	Owen, Wisconsin
Houston, John Marion	2	Pleasant Grove, Utah
Hoyt, Lloyd Dillas	2	De Smet, South Dakota
Hughes, Luther	3	Mason City
Iglowitz, Jacob	2	Chicago
Iriyama, Takatomo, D.D.S.	4	Asahikawa, Japan
Jager, Elizabeth	2	Voss, Norway
Janssen, Curtis William	1	Minonk
Jennings, Howard P.	1	Chicago
Johnson, John Wallace	1	Faulkton, South Dakota
Johnson, Andrew John	1	Ishpeming, Michigan
Jones, John	3	Mason City
Jones, Claud	4	Camp Point
Joseph, Robert	1	Knox, Indiana
Jung, William Cyrus	1	Chicago
Kanter, Nathan	1	Chicago
Kartman, Nathan Sam	1	Chicago
Keller, Vernon S.	1	Brigham City, Utah
Kerrick, Carleton Everly	1	Bloomington
Kingston, Neil A.	2	Honell, New York
Kins, Douglas E.	1	Durand, Wisconsin
Kirby, Tom Wesley	1	Jerseyville
Kopriva, Edward Louis	1	Chicago
Krabbe, Newton J.	3	Champaign
Krauser, Elba	3	Bushnell
Kretshmer, Sam	3	Chicago
Kuhlmann, Ernest William	1	Peoria
Kupferman, Fred	1	Chicago
Lachout, Anna	3	Borotin, Czechoslovakia
Lande, Harry	3	Chicago
Langenbahn, Philip H.	2	South Bend, Indiana
Lazarski, Casimir Paul	1	Chicago
Leighton, Summer	1	Westbrook, Maine
Lerner, Samuel Harry	1	New York City, New York
Levin, Maurice	1	Chicago
Levine, Maurice H.	1	Chicago
Lewbin, Hyman	4	Chicago
Lewis, Jacob	3	Chicago
Linane, Francis J.	1	Chicago
Lipsey, Maurice Bernard	2	Chicago
Liscorn, Jason Leslie	2	Beardstown

Madden, John Joseph	1	Chicago
Maki, Jeramais	2	Chicago
Malecek, Joseph Frank	1	Chicago
Mansfield, Floyed	1	Genoa
Marshak, Charles	2	Chicago
Marshall, Benjamin	2	Oirimiah, Persia
Martin, Bruce Crittendon	2	Chicago
Menning, Theodore J	2	Chicago
Metcalf, Leonard Lawrence	2	Streator
Meyer, William August	1	Monessen, Pennsylvania
Middleton, William	4	Argos, Indiana
Middleton, Louis R	3	Chicago
Moldenhaur, Alfred	3	Algonquin
Mollenkopf, Evan	3	Convoy Ohio
Moore, John Henry	4	Wynn, Arkansas
Moresky, Benjamin	1	New Castle, Pennsylvania
Mugurdichian, Dikran	1	Chicago
Munns, Charles Arthur	2	Brigham City, Utah
Munro, Edward F	4	Chicago
McNear, Philip Martin	2	Columbia City, Indiana
McPherson, Cecil Alexander	2	Sidney,
Neff, Eda Dee	3	Bethany, Missouri
Nielsen, Andrew Groat	4	Chicago
Nielson, Lorrin Russell, B.S.	2	Monmouth
Novak, Joseph Charles	1	Chicago
Mowicki, Edward	4	Chicago
Olech, Eli	2	Chicago
Orr, Malcolm Rufus	2	Decatur
Pahl, Hans Charles	1	Chicago
Palmbaum, Julius	1	Chicago
Paris, Paul J	1	Murray, Utah
Plants, James Forrest	1	Faulton, South Dakota
Plater, Wade R	1	Vienna
Prehn, Delos Carl	4	Wausau, Wisconsin
Prendergast, Leonard Francis	1	Cleveland, Ohio
Pustelnik, Meyer	2	Chicago
Raab, William Edward	2	Carlinville
Rehm, Henry	2	Chicago
Ritter, Lyman	2	Chicago
Robbins, Edward G	1	Redfield, South Dakota
Robeson, Foster Garnett	1	Minot, North Dakota
Rock, William	3	Dixon
Rockey, Clinton George	4	Joliet
Rosen, Sam	3	Chicago
Rutenberg, Louis C	1	Chicago
Ryan, Edward James	4	Chicago
Sack, Joseph A	1	Chicago
Saffir, Jacob A	2	Chicago
Salk, Charles Maurice	1	Chicago
Saperstein, Zachery	3	Balta, Russia
Saxon, Harry	1	Chicago
Schechtman, Maurice	1	Chicago
Schneiderman, Martin Samuel	2	Chicago
Schour, Isaac	1	Chicago
Schuler, Raymond Charles	2	Henryville, Indiana
Schur, Irving Carl	2	Kenilworth
Schwartz, Harold	2	Chicago
Scott, Frank Earl	2	Mullen, Idaho
Segal, Meyer	1	New Haven, Connecticut
Seritella, William James	1	Chicago
Servais, Clifford F <sup>1</sup>	1	Nadeau, Michigan
Shaykin, Jacob B	1	Chicago
Sirmer, Fred W	1	Carrollton
Singleton, Roscoe Elwood	1	Springfield
Skupa, Arthur James	1	Chicago
Skuding, Roman T	2	Chicago
Slad, George	1	Chicago
Smollar, Samuel	1	Chicago
Smith, Robert	1	Menominee, Michigan
Speckhard, Eric	1	Bay City, Michigan
Sroka, John Julius	2	Chicago
Stewart, Owen Metz	1	Mesa, Arizona
Stockstad, Walter	4	Volga, South Dakota
Strilky, Maurice	3	Chicago
Stuenkel, Ernest G	3	Brookfield
Sturman, Henry	3	New York, New York
Swain, Harold	3	Kewanee
Swedberg, Paul	2	Marshalltown, Iowa
Szwajhart, Eugene Walter	2	Chicago
Tarkington, Charles Maurice	1	Evanston
Theodore, John W	1	Chicago
Thompson, C Vernon	1	Carlton
Trovillion, Howard W	2	Metropolis
Tourek, George	2	Chicago

<sup>1</sup>Not in attendance.

Tylski, Walter William	1	Chicago
Wach, Edward Charles, Ph.G.	2	Chicago
Walsh, Michael Hugh	1	Gary, Indiana
Ward, Hartzell Harris	2	Colfax
Washington, Carl Reed	1	Seguin, Texas
Waterman, Lyle A	1	Egan, South Dakota
Wendelsdorf, Chester Willis	2	Chicago
Wilcox, Paul	1	Columbus City, Indiana
White, Matilda J	2	Benld
Willis, Samuel	2	Joppa
Willis, Herbert W	2	Joppa
Wilneff, Max	1	Chicago
Wilson, Marshall O	1	Jacksonville, Florida
Wishneff, Ralph R	1	Chicago
Wong, Benjamin K	3	Nanaimo, British Columbia
Worsley, Raymond C	4	Dixon
Young, Frank George	2	Chicago
Zak, Edwin James	1	Chicago
Ziegler, William James	1	Chicago
Zielinski, Joseph B	2	Chicago
Zoellner, Gilbert Otis	1	Waupun, Wisconsin

## SCHOOL OF PHARMACY

Name	Year	Residence
Ackermann, Alvert Gregory	P 1	Chicago
Adler, Joseph Marcus	P sp	Chicago
Africk, Abraham	P 1	Chicago
Alex, Frank	P sp	Chicago
Anderson, Stanley	P sp	Chicago
Antonides, Edward	P 2	Chicago
Appel, David M	P 1	Chicago
Arres, G Richard	P 1	Manteno
Babcock, Fred Elmo	P 1	Aledo
Baker, Jerome Walter	P sp	Chicago
Barcroft, Victor Ambrose	P 2	Litchfield
Barker, Carl	P 1	McLeansboro
Barnard, Frederick Stebbins	P 2	Upper Alton
Barryte, Vivien Zerna	P 1	Chicago
Barton, Paul Elzevir	P 2	Litchfield
Bennett, Neil	P 1	Ogden, Utah
Berarde, James B	P 2	Chicago
Besser, Henry A	P sp	LaGrange
Bexfield, Henry Nielsen	P 1	Maywood
Blower, James Arthur	P 2	Clinton, Indiana
Bobek, Edward Frank	P 1	Chicago
Bochner, Isadore	P 1	Chicago
Bogot, Isadore E	P 1	Maywood
Bolen, Hallie Ellsworth	P 1	Anna
Bona, Leon Thomas	P 1	Chicago
Boroucki, Alphonso W	P 1	Chicago
Bradford, Raymond Allen	P 1	Flora
Brann, William Paul	P 2	Cave-in-Rock
Brown, Glenn L	P sp	Effingham
Byers, Floyd Marion	P 2	Genoa
Byers, Leslie Clare	P 2	Genoa
Carrubba, John	P sp	Chicago
Chapman, Gerald S	P 2	Winslow, Arizona
Choisser, Joseph Milton	P 1	Eldorado
Cochran, George Milton	P 1	Little Rock, Arkansas
Cohen, Abraham Edward	P 2	Chicago
Cohn, Matthew	P 1	Chicago
Covnot, Moses Phillip	P 2	Streator
Crouch, Louis Raymond	P 1	Chicago
Crystal, George Orlean	P 1	Chicago
Crystal, Isidore Bernard	P 1	Chicago
Czeck, Michael	P sp	Argo
Danapoulos, Constantine F	P sp	Chicago
Dougherty, Joseph Downey	P 1	Chicago
Dunghi, Mario Louis	P 2	Ottawa
Dunn, Raymond Edward	P sp	Decatur
Eisele, Louis D	P 2	New Berlin
Epstein, Casper Morris	P 1	Chicago
Falkenstein, Howard J	P 2	Astoria
Fallon, Walter Raymond	P 2	Chicago
Fay, Leslie Vincent	P 2	Dwight
Felsher, William Maurice	P 1	Chicago
Fenn, Kenneth Newton	P 2	Prophetstown
Fink, Rudolph John	P 1	Chicago
Frankowski, Matthew	P 1	Whiting, Indiana
Freiland, Dina Margaret	P 2	Westby, Wisconsin
Funk, Herbert Emerson	P sp	Chicago
Glatt, Milton Melvin	P 1	Chicago

Gleich, Clarence Philip	P	1	Nokomis
Glynn, Leo Kyrone	P	sp	Davenport, Iowa
Goldberg, Sidney Kane	P	1	Chicago
Graft, Roy Joseph	P	sp	Chicago
Graham, Clarence Henry	P	2	Carlisle
Gregg, Russell	P	1	Morris
Green, Clifford Earl	P	1	Henry
Greenschlag, Herman David	P	1	Chicago
Gronemeyer, Lawrence H	P	sp	Quincy
Grossman, David Percy	P	2	Chicago
Hagler, Walter Raymond	P	1	Alto Pass
Haller, Anna Bee	P	1	Forreston
Hanes, Clyde Daniel	P	sp	Chicago
Hatch, Irving Greene	P	sp	Chicago
Havens, Charles Milton	P	1	Marengo
Hedge, Richard LeWarr	P	sp	Danville
Hodel, Elmer Martin	P	1	Freeport
Hodel, Oscar Carl	P	1	Freeport
Hoelzel, Philip Henry	P	1	Watertown, Wisconsin
Hottoian, Vaughn	P	1	Chicago
Hout, Wesley Karl	P	1	Lovington
Hurdle, Glenn Franklin	P	2	Mt. Sterling
Jabusch, Arthur Elmer	P	1	Chicago
Janda, Joseph	P	sp	Chicago
Johnson, Barney	P	1	Barron, Wisconsin
Johnson, Carl Hearn	P	1	Carbondale
Johnson, Leonard Ferdinand	P	2	Barron, Wisconsin
Johnston, John Arthur	P	sp	Chicago
Johnston, William Greer	P	sp	Chicago
Jones, Rees	P	1	Chicago
Kachinskas, John	P	2	Chicago
Kappus, Julia Anna	P	1	Elmhurst
Katz, Isadore	P	2	Chicago
Kelch, Henry	P	2	Chicago
King, Oscar Vance	P	1	Minonk
Klawans, Paul Harold	P	1	Chicago
Klink, Irvin Peter	P	1	Chicago
Knutson, Carl Werner	P	1	Chicago
Kodera, James Charles	P	1	Chicago
Koelbel, Gerhardt Elmer	P	1	Chicago
Koontz, Victor Earl	P	1	Mound City
Krauczunas, John Julius	P	1	Chicago Heights
Kunka, Henry Edmund	P	1	Chicago
Kunka, Robert	P	1	Chicago
Kunkel, Lloyd Newton	P	2	Litchfield
Lacy, Ishman Laurence	P	1	Birmingham, Alabama
Lane, Robert John	P	1	Chicago
Law, George Boyd	P	sp	Savanna
Leach, Raymond Albert	P	2	Warren, Ohio
Levinson, Leo David	P	2	Chicago
Levy, Russell, Damon	P	1	Ottawa
Lindahl, Fred Washington	P	1	Waukegan
Longman, Ivan	P	1	Lacon
Lorenz, Curtis Francis	P	1	Highland
Lubeck, Harry Aaron	P	1	Maywood
Lvckberg, Theodore	P	1	Chicago
Maether, Carl A	P	sp	Chicago
Malinsky, George	P	sp	Chicago
Mapes, Ralph Clark	P	2	Rising Sun, Indiana
Martin, John	P	1	Joliet
Martin, Lewis Elbert	P	2	Monticello
Martin, Raeburn LeRoy	P	sp	Ashley
Martino, John	P	1	Cicero
McMahon, Vernon Thomas	P	1	Waukegan
McOmber, Frank Lewis	P	1	DeKalb
Meadows, Robert Clarence	P	1	Mounds
Mendelsohn, Philip	P	2	Chicago
Merlak, Francis	P	2	Chicago
Meyer, Grant William	P	1	Ottawa
Milles, George	P	2	Chicago
Mills, George Stallworth	P	1	Shreveport, Iowa
Morava, Harold Rudolph	P	sp	Chicago
Moss, Francis Charles	P	1	Ottawa
Oberman, Frank	P	sp	Springfield
Oliva, David	P	1	Chicago
Parks, George Edwin	P	1	Anna
Petraneck, Joseph Louis	P	sp	Kankakee
Philps, Cyril Arnold	P	2	Camp Douglas, Wisconsin
Plummer, Cleon Kermit	P	2	Chicago
Plumery, Joseph Manuel	P	sp	Oak Park
Plzak, Louis	P	2	Cicero
Prihoda, John Frank	P	1	Cicero
Quong, Louis Sing	P	1	Canlon, China
Reinhard, Harold Alexis	P	sp	Mt. Carmel
Rettke, Ralph C	P	1	Chicago
Robinson, Wesley J	P	2	Peru

Roche, Gerald Carte	P	1	Chicago
Roeseler, William Theodore	P	2	Chicago
Rosenblum, Rebecca	P	1	Chicago
Rowland, Clarence LeRoy	P	sp	Davenport, Iowa
Rulien, Elmer	P	1	Joliet
Ruzicka, George Joseph	P	sp	Chicago
Saltiel, Henry Carl	P	2	Chicago
Sample, Leo E	P	2	Chicago
Sarasinsky, Thomas Lester	P	1	Chicago
Sauther, William Jennings Bryan	P	1	Benton
Sayre, Walter Louis	P	1	Elgin
Schmid, Herbert C	P	2	Peoria
Schulte, Norma Claire	P	2	Chicago
Scott, James McKinley	P	1	Pickens, Mississippi
Searles, Lyle Headle	P	1	Amboy
Seibert, Sumner Sigle	P	2	Ashley
Shuldes, Benjamin Joseph	P	sp	Berwyn
Silberman, Isadore	P	2	Chicago
Sims, Russel Porter	P	1	Paris
Skłodowski, Helen Jenny	P	sp	Cicero
Skoglund, Herbert	P	2	Chicago
Sladky, Anton	P	1	Chicago
Slothower, Harold Keith	P	1	Warren
Smith, Gordon Alexander	P	1	Homer
Smith, Herman Philip	P	sp	LaMoille
Spagna, Ferdinand Adolph	P	2	Chicago
Spinner, Louis Charles	P	2	Hillsboro
Soldinger, David Charles	P	1	Chicago
Sorenson, Adolph Waldo	P	2	Rowley, Iowa
Stahlberg, Roy Bernard	P	1	Harrisburg
Stanczak, Stanley Lucian	P	2	Chicago
Steinberg, Rose	P	1	Chicago
Stern, Lester Mervin	P	1	Chicago
Stotlar, Jo Spiller	P	2	Herrin
Stoner, Lloyd	P	2	Rock Falls
Stoyanoff, Nicholas D	P	1	Granite City
Stulik, Antoninette	P	2	Chicago
Sullivan, Eugene Patrick	P	1	Chicago
Swanson, Perle F	P	1	Paxton
Sweeney, Thomas	P	sp	Chicago
Sykora, Edward	P	2	Chicago
Tanner, Clarence H	P	1	Lewisstown
Taylor, Raymond Clide	P	2	Antioch
Thomas, Arthur Bruce	P	1	Chicago
Thomson, Samuel Clifton	P	1	Pontiac
Thompson, Charles Samuel	P	2	DuQuoin
Toy, Wing	P	1	Chicago
Tucker, Creed Aerial	P	1	Champaign
Tuma, Charles Paul	P	2	Berwyn
Tumas, John	P	1	Chicago
Turner, Darwin Romanes, A.B.	P	1	Chicago
Van Mater, Ford B	P	sp	Freeport
Walborn, Madge Orlean	P	2	Chicago
Walter, Casper	P	1	East St. Louis
Warczak, Frank Albert	P	1	Chicago
Watson, William Roy	P	1	Evanston
Webster, George Lewis	P	1	Maquoketa, Iowa
Weiss, Louis Ralston	P	2	Chicago
Weiss, Sidney	P	sp	Chicago
Whitney, Maxson Hall	P	2	Wenona
Wiedman, Clem Joseph	P	sp	Effingham
Wiertelak, Albert Peter	P	sp	Chicago
Willette, George	P	sp	Chicago
Wolfe, Cecil Dewey	P	1	Chicago
Zielinski, Aldona	P	1	Chicago
Zimmermann, Henry Earl	P	sp	Tuscola

### EXTRA-MURAL COURSES IN INDUSTRIAL EDUCATION FOR TRAINING OF TEACHERS UNDER THE FEDERAL VOCATIONAL EDUCATION ACT

At the present time the University of Illinois is offering at five local centers—in Aurora, Chicago, Cicero, Joliet and Springfield—extra-mural courses in industrial education for the training of teachers under the Federal Vocational Education Act, including courses for shop teachers, and courses for teachers of general continuation subjects.

#### Abbreviations

G. C. General Continuation Teachers' Course.  
S. Shop Teachers' Course.

A. Aurora  
Cic. Cicero  
Chi. Chicago  
Jol. Joliet  
Spfld. Springfield

Name	Curriculum	Center	Address
Ackerman, Emma C	G.C.	Joliet	Lockport
Aiken, George J	S.	Chi.	Chicago
Anderman, John	S.	Chi.	Chicago



Anderson, Myrtle Justina	G.C.	Spqfd.	Springfield
Anderson, Ruth S	G.C.	Cic.	Cicero
Anning, Edith K	G.C.	A.	Aurora
Ashley, Robert L	G.C.	Cic.	Riverside
Augustine, Elizabeth B	G.C.	Cic.	Chicago
Bane, Geneva M	G.C.	Spqfd.	Springfield
Baumann, Marie	G.C.	A.	Aurora
Beaver, Mabel A	G.C.	Cic.	Chicago
Becker, Lillian	G.C.	Cic.	Cicero
Beebe, Viola	G.C.	Cic.	Berwyn
Beers, Edna P	G.C.	Cic.	Berwyn
Bell, Daisy M	G.C.	Cic.	Cicero
Bellersheim, Kathryn	G.C.	Spqfd.	Springfield
Bingham, Marie E	G.C.	Spqfd.	Springfield
Bliss, Jean Eames	G.C.	Cic.	Chicago
Bloodgood, A C	G.C.	A.	Aurora
Bohnstengel, Clara	G.C.	A.	Aurora
Bolyard, Olive	G.C.	Cic.	Chicago
Bothwell, Ada	G.C.	Cic.	Berwyn
Brogue, Arthur	G.C.	Cic.	Berwyn
Brown, Roberta	G.C.	Jol.	Joliet
Burns, H G	G.C.	Cic.	Berwyn
Burt, Alice	G.C.	Cic.	Cicero
Campbell, Cora	G.C.	Spqfd.	Springfield
Chase, Annabelle	G.C.	A.	Aurora
Clarke, Helen W	G.C.	Spqfd.	Springfield
Close, Nelson H	G.C.	A.	Aurora
Coffey, Carolyn Laura	G.C.	Spqfd.	Springfield
Cordy, Hortense	G.C.	A.	Aurora
Crain, Alma	G.C.	A.	Aurora
Crimmens, Margaret	G.C.	A.	Aurora
Detrick, Charles L	G.C.	Cic.	Berwyn
Dickerson, Jeannette Mae	G.C.	Spqfd.	Springfield
Dieterich, Florine	G.C.	Spqfd.	Springfield
Duda, O F	G.C.	Cic.	Chicago
Duke, Carl E	G.C.	Spqfd.	Springfield
Eberly, Vulah	G.C.	A.	Aurora
Eckhardt, H H	G.C.	Cic.	Cicero
Embury, George M	S.	Chi.	Chicago
Finegan, Hattie	G.C.	Spqfd.	Springfield
Fleeman, Mrs. Julia	G.C.	Spqfd.	Springfield
Foreman, Lulu B	G.C.	Spqfd.	Springfield
Freidinger, Grace	G.C.	Spqfd.	Springfield
Frey, Max	S.	Chi.	Chicago
Fritchle, Frank B	S.	Chi.	Chicago
Frost, Katharine B	G.C.	Cic.	Cicero
Gamberton, Rhoda B	G.C.	A.	Aurora
Garrity, May	G.C.	A.	Aurora
Garwood, Mabel	G.C.	A.	Aurora
Gaughan, Kathryn	G.C.	Spqfd.	Springfield
Gawne, Paul W	G.C.	Cic.	Berwyn
Gehlman, Virginia	G.C.	Spqfd.	Springfield
Gerdes, Annie M	G.C.	Spqfd.	Springfield
Giles, Imogene K	G.C.	Cic.	Berwyn
Gowdy, Marie	G.C.	A.	Aurora
Gunderson, Harry O	S.	Chi.	Chicago
Gyles, Rose M	G.C.	Cic.	Cicero
Hart, Fred T	G.C.	Cic.	Cicero
Henry, Alta	G.C.	Jol.	Joliet
Herndon, Lena	G.C.	Spqfd.	Springfield
Holmgren, Ethel C	G.C.	A.	Aurora
Howey, Ruth	G.C.	Spq d.	Springfield
Jameson, Gladys	G.C.	A.	Aurora
Johnson, Eskil E	G.C.	Cic.	Berwyn
Johnson, Irene	G.C.	Jol.	Joliet
Johnson, Warren E	G.C.	Cic.	Berwyn
Kavanaugh, M F	G.C.	Spqfd.	Springfield
Kavanaugh, M J	G.C.	Spqfd.	Springfield
Kelly, John	S.	Chi.	Chicago
Kent, Orla G	G.C.	A.	Aurora
Keyper, Andrew	S.	Chi.	Chicago
Kimball, Emery L	G.C.	Cic.	LaGrange
Koch, Edna M	G.C.	Cic.	Cicero
Koehne, William H	S.	Chi.	Chicago
Knudson, Helen	G.C.	Spqfd.	Springfield
Kuchne, Sophia	G.C.	Jol.	Joliet
Lagerlof, George	G.C.	Cic.	Chicago
Lalane, Vincent	G.C.	Cic.	Cicero
Lender, Mildred Dorothy	G.C.	Cic.	Cicero
Lintner, Ida M	G.C.	Jol.	Joliet
McAllister, A R	G.C.	Jol.	Joliet
McCall, Arthur B	G.C.	Spqfd.	Springfield
McCarthy, Gertrude	G.C.	A.	Aurora
McChesney, Edith	G.C.	A.	Aurora
Maddonald, Hortense K	G.C.	Cic.	Cicero
Malcolm, Jessie	G.C.	A.	Aurora

Martin, Martha B	G.C.	Jol.	Joliet
Maupin, Daisy	G.C.	Spqfd.	Springfield
Miller, Eva J	G.C.	Cic.	Cicero
Morgan, Ruth	G.C.	Cic.	Cicero
Mott, Laura E	G.C.	Spqfd.	Springfield
Mueller, P K	G.C.	Jol.	Joliet
Munn, Gertrude	G.C.	Cic.	Cicero
Naden, Gladys L	G.C.	A.	Aurora
Neumayer, Katherine	G.C.	A.	Aurora
O'Neil, Veronica G	G.C.	A.	Aurora
Payer, Josephine	G.C.	Cic.	Berwyn
Peek, Ruby	G.C.	Spqfd.	Springfield
Pfister, William B	S.	Chic.	Chicago
Pinkerton, Matilda Irvine	G.C.	Spqfd.	Springfield
Pope, Walter S	G.C.	Cic.	Berwyn
Postle, Sara	G.C.	A.	Chicago
Puddicombe, Florence C	G.C.	Jol.	Joliet
Radcliffe, Helen K	G.C.	Spqfd.	Springfield
Regan, Frances	G.C.	Jol.	Joliet
Reid, Mollie Ann	G.C.	Cic.	Cicero
Relk, Cornelius	S.C.	Chi.	Chicago
Ricker, Althea	G.C.	A.	Aurora
Roberts, Edith	G.C.	Cic.	Berwyn
Roberts, Orville W'	G.C.	Cic.	Cicero
Robertson, Florence L	G.C.	Spqfd.	Springfield
Scott, Florence	G.C.	Cic.	Cicero
Serviss, Gladys H	G.C.	A.	Aurora
Shaw, Mayfield, Jr.	G.C.	Spqfd.	Springfield
Shower, A E	G.C.	Cic.	Cicero
Sigley, Estella M	G.C.	Spqfd.	Springfield
Silliman, Alice P	G.C.	Cic.	Chicago
Simons, Katharyn	G.C.	Cic.	Yorkville
Smith, Allen L	G.C.	Spqfd.	Springfield
Smith, Arthur L	G.C.	Cic.	Cicero
Smith, Joseph	G.C.	Jol.	Joliet
Spelman, Walter B	G.C.	Cic.	Berwyn
Sprague, Georgia M	G.C.	Cic.	Berwyn
Stevenson, Claudia	G.C.	Cic.	Chicago
Strouse, Mabel F	G.C.	Cic.	Berwyn
Svasta, Frank Steven	G.C.	Cic.	Cicero
Swag, Lynn R (Mrs.)	G.C.	A.	St. Charles
Tappan, Russell	G.C.	Jol.	Joliet
Tarbet, Ella M	G.C.	Spqfd.	Springfield
Tate, Harry L	G.C.	Cic.	Chicago
Terson, Alice	G.C.	Jol.	Joliet
Thompson, Ocie M	G.C.	A.	Aurora
Todd, H C	G.C.	Jol.	Joliet
Vernon, Lee V	G.C.	Cic.	Cicero
Walker, J Grace	G.C.	Cic.	Cicero
West, Clyde I	G.C.	Jol.	Joliet
Whitney, Lucille	G.C.	Cic.	Cicero
Williams, J A	G.C.	Cic.	Cicero

# DEGREES CONFERRED

1920

Degrees are conferred at four times in the year, as follows: (1) at the end of the first semester, in February; (2) at the end of the second semester, in June; (3) at the end of the Summer Session, in August; (4) in October. Unless otherwise stated, the degrees in the following lists were conferred on June 16, 1920.

## THE UNDERGRADUATE COLLEGES

(Degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Music)

LUCILE HANNAH ABRAHAM, Bachelor of Science (Commerce)  
CHARLOTTE WELD ACER, Bachelor of Arts (Home Economics)  
JOSEPH CLARENCE ALBRIGHT, Bachelor of Science (Mechanical Engineering)  
EDMUND WALDO ALDERSON, Bachelor of Science (Commerce)  
ELLWOOD HARMON ALDRICH, Bachelor of Science (Civil Engineering)  
NEWTON VINCENT ALISON, Bachelor of Science (Commerce)  
HARRY KENNETH ALLEN, Bachelor of Science (Commerce)  
LAWRENCE HOLT ALLEN, Bachelor of Science (Commerce)  
FLORENCE GERTRUDE ALTHAUS, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
FRED WARD ALWOOD, Bachelor of Science (Science)<sup>2</sup>  
ALTA MAURINE AMES, Bachelor of Arts (Liberal Arts)  
ERNEST ANASTASSIADES, Bachelor of Science (Civil Engineering)<sup>1</sup>  
ALVIN THEODORE ANDERSON, Bachelor of Science (Agriculture)  
HARRIETT MAYBELLE ANDERSON, Bachelor of Arts (Liberal Arts)  
NORVAL EUGENE ANDERSON, Bachelor of Science (Civil Engineering)  
PAUL ALEXANDER ANDERSON, Bachelor of Science (Science)<sup>3</sup>  
ELIZABETH ANDREWS, Bachelor of Arts (Home Economics)  
JOHN HARLEY ANDREWS, Bachelor of Science (Commerce)  
RUSSELL EVANS APPLE, Bachelor of Science (Agriculture)  
G VICTOR ARMSTRONG, Bachelor of Arts (Liberal Arts)  
PAUL LEO ARMSTRONG, Bachelor of Arts (Liberal Arts)  
WILBUR PRICE ARMSTRONG, Bachelor of Arts (Liberal Arts)  
JOSEPH MONTGOMERY AUBUCHON, Bachelor of Science (Electrical Engineering)  
ERNEST ROLAND AULD, Bachelor of Science (Agriculture)<sup>1</sup>  
DARIUS WILLIAM AUNGST, Bachelor of Science (Commerce)  
OLIVER GREENE BACON, Bachelor of Science (Agriculture)<sup>1</sup>  
JOHN CARROLL BADGER, Bachelor of Science (Agriculture)<sup>4</sup>  
LILIAN BAETHKE, Bachelor of Arts (Home Economics)  
LUCILE BAILIE, Bachelor of Science (Home Economics)  
CLARENCE EVERETT BAKER, Bachelor of Science (Agriculture)<sup>3</sup>  
WALTER RILEY BAKER, Bachelor of Science (Agriculture)  
ARTHUR ERNEST BALDWIN, Bachelor of Science (Commerce)  
HELEN TAYLOR BALDWIN, Bachelor of Arts (Liberal Arts)  
FREDERICK DUNHAM BALL, Bachelor of Arts (Liberal Arts)  
THOMAS BAMFORD, Bachelor of Science (Agriculture)  
ANNA DEWEY BANCROFT, Bachelor of Arts (Liberal Arts)  
HAZEL B BARACKMAN, Bachelor of Science (Home Economics)  
HILLIS ELWYN BARBER, Bachelor of Science (Agriculture)  
WILBUR BARRETT BARBER, Bachelor of Science (Electrical Engineering)  
CONRAD MORTON BARDWELL, Bachelor of Arts (Liberal Arts)  
ANNIE ELIZA BARKER, Bachelor of Arts (Liberal Arts)  
OLIVER FREDERICK BARKLAGE, Bachelor of Science (Electrical Engineering)<sup>1</sup>  
EMORY MERRILL BARKOW, Bachelor of Science (Agriculture)  
HARRIET BATTERTON, Bachelor of Arts (Liberal Arts)  
WILLIAM HENRY BARTLETT, Bachelor of Science (Agriculture)  
FRED BASS, Bachelor of Science (Agriculture)  
EMILY ELIZABETH BAYLEY, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
ALBERT CHARLES BECKEN, JR., Bachelor of Science (Commerce)  
FREDERICK WILLIAM BECKER, Bachelor of Science (Commerce)  
HAROLD J BECKEMEYER, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
JOSEPH HILLMAN BEDALE, Bachelor of Arts (Liberal Arts)  
LUCILLE EMILY BEEDY, Bachelor of Arts (Liberal Arts)  
HERBERT BISHOP BEIDLER, Bachelor of Science (Architecture)  
FRANK MICHAEL BEIEN, Bachelor of Science (Commerce)  
HAROLD PHILIP BELL, Bachelor of Science (Commerce)  
JOHN HASLETT BELL, Bachelor of Science (Agriculture)  
LOWELL EMMA BELL, Bachelor of Science (Science)<sup>3</sup>  
MARY ELIZABETH BELL, Bachelor of Science (Liberal Arts)<sup>3</sup>

<sup>1</sup>Degree conferred March 9, 1920.

<sup>2</sup>Degree conferred August 14, 1920.

<sup>3</sup>With thesis.

<sup>4</sup>Degree conferred November 19, 1920.

ROBERT DANIEL BELL, Bachelor of Science (Agriculture)  
 VLADIMIR TANCE BELLEFF, Bachelor of Science (Agriculture)  
 HAIG BELOIAN, Bachelor of Science (Agriculture)<sup>1</sup>  
 BASIL BENNETT, Bachelor of Science (Agriculture)  
 PARKER WILLIAM BENNETT, Bachelor of Science (Commerce)<sup>1</sup>  
 WAYNE ROSLEY BENNETT, Bachelor of Science (Commerce)  
 LOIS POPE BENSON, Bachelor of Arts (Liberal Arts)  
 CURTIS BENTON, Bachelor of Arts (Liberal Arts)  
 FRED LEONARD BERG, Bachelor of Science (Commerce)  
 CLIFFORD SHAFFER BERNARD, Bachelor of Science (Architecture)  
 WILBERT BERNHARDT, Bachelor of Science (Civil Engineering)  
 RUTH A BERNREUTER, Bachelor of Science (Education)  
 JOHN JOSEPH BICKEL, Jr., Bachelor of Science (Architecture)  
 EDWARD ADOLPH BIEDERMANN, Bachelor of Science (Commerce)  
 CHARLES GRIFFEN BIRDSALL, Bachelor of Science (Chemical Engineering)  
 ALBERT GAIN BLACK, Bachelor of Science (Agriculture)<sup>2</sup>  
 DANIEL AUGUSTUS BLAIR, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 ELIZABETH BLAKESLEE, Bachelor of Arts (Home Economics)  
 STANLEY WATERS BLISS, Bachelor of Science (Architecture)  
 EINAR THOMAS BLIX, Bachelor of Science (Architectural Engineering)  
 OWEN BLOODGOOD, Bachelor of Science (Commerce)  
 WYLLIE BLOODGOOD, Bachelor of Science (Architecture)  
 CURTIS LOVE BOARDMAN, Bachelor of Science (Architecture)  
 VIRGINIA MILDRED BOELLNER, Bachelor of Science (Commerce)  
 HAROLD BOESCHENSTEIN, Bachelor of Arts (Commerce)<sup>1</sup>  
 PETER JOHN BOESEN, Bachelor of Science (Electrical Engineering)  
 EDA MARIE CHARLOTTE BORGETT, Bachelor of Arts (Liberal Arts)  
 CASPAR OSCAR BORGMEIER, Bachelor of Science (Commerce)  
 CLARENCE ALFRED BONNEN, Bachelor of Science (Agriculture)  
 HOWARD RALPH BOSWORTH, Bachelor of Science (Electrical Engineering)  
 NELLIE GENEVIEVE BOUCHER, Bachelor of Arts (Liberal Arts)  
 HARVEY RUSSELL BOWDITCH, Bachelor of Science (Agriculture)  
 VIOLET BEATRICE BOYLE, Bachelor of Science (Home Economics)  
 MARIE MARGARET BRADBURY, Bachelor of Arts (Home Economics)  
 MARIANN BRADT, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 OLIVER GALBRAITH BRAIN, Bachelor of Science (Electrical Engineering)  
 MILLARD EVERETT BRAME, Bachelor of Science (Agriculture)  
 HENRY ERNEST BRAUER, Bachelor of Science (Chemical Engineering)  
 REGINALD KENNETH BRAUNSDORFF, Bachelor of Science (Electrical Engineering)  
 RACHEL AUGUSTA BREATHWIT, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 CHARLES BREDFELDT, Bachelor of Science (Civil Engineering)  
 WALTER ISADORE BREGMAN, Bachelor of Science (Commerce)  
 CLELLA MAE BRICKLEY, Bachelor of Arts (Home Economics)  
 ELIZABETH MAURY BROADHURST, Bachelor of Arts (Home Economics)  
 MARION THEODORA BROLIN, Bachelor of Arts (Home Economics)<sup>1</sup>  
 JOSEPH CHANEY BROOKS, Bachelor of Science (Agriculture)  
 ALVIN CARL BROMM, Bachelor of Science (Agriculture)<sup>1</sup>  
 HELEN BROSHAR, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 LORENE BROWN, Bachelor of Arts (Liberal Arts)  
 RALPH HADDEN BROWN, Bachelor of Science (Agriculture)  
 RALPH NEWTON BROWN, Bachelor of Science (Agriculture)<sup>2</sup>  
 MARJORIE JANE BROWNE, Bachelor of Arts (Liberal Arts)  
 HENRY RAQUET BRUNNEMEYER, Bachelor of Science (Agriculture)  
 EDWARD GUNNING BRYA, Bachelor of Science (Agriculture)  
 HELEN LOUISE BUCHEN, Bachelor of Arts (Liberal Arts)  
 MIRIAM GERTRUDE BUCK, Bachelor of Arts (Liberal Arts)  
 WILLIAM BENTON BUNN, Bachelor of Science (Agriculture)<sup>1</sup>  
 JOHN ARTHUR BURKE, Bachelor of Science (Mechanical Engineering)  
 HOWARD CHAUNCEY BURLISON, Bachelor of Science (Commerce)  
 RALPH FRANCIS BURNS, Bachelor of Science (Commerce)  
 KARL ACKERMAN BURNSIDE, Bachelor of Science (Architectural Engineering)  
 LUCIE PAULINE BURWASH, Bachelor of Arts (Home Economics)  
 MARGARET JEANNETTE BUSEY, Bachelor of Science (Science)<sup>1</sup>  
 FLORENCE GENEVIEVE BUSHNELL, Bachelor of Arts (Liberal Arts)  
 MAUD MARIE BUTLER, Bachelor of Arts (Home Economics)<sup>2</sup>  
 ANNA MABEL CAMPBELL, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 LESTER CLOYD CANNON, Bachelor of Science (Agriculture)  
 OPAL CANNON, Bachelor of Arts (Liberal Arts)  
 TYRONE MURPHY CANNON, Bachelor of Science (Mechanical Engineering)  
 RALPH ARMOND CARLSEN, Bachelor of Science (Commerce)  
 CARL BERNARD CARLSON, Bachelor of Science (Civil Engineering)  
 WINIFRED JEAN CARLSON, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 SIDNEY SYLVESTER CARNEY, Bachelor of Science (Agriculture)  
 HENRY HAYENS CARRIERS, Bachelor of Science (Agriculture)<sup>1</sup>  
 CHARLES CARROLL III, Bachelor of Science (Commerce)  
 ELLA BEATRICE CARROLL, Bachelor of Arts (Liberal Arts)  
 EDGAR B CARSON, Bachelor of Science (Agriculture)  
 WILLIAM JAMES CARTHAUS, Bachelor of Science (Chemical Engineering)  
 EVELYN MILDRED CESSNA, Bachelor of Arts (Home Economics)  
 CHIA CHIEH CHANG, Bachelor of Science (Mechanical Engineering)

<sup>1</sup>Degree conferred March 9, 1920.

<sup>2</sup>With thesis.

<sup>1</sup>Degree conferred November 19, 1920.

<sup>2</sup>Degree conferred August 14, 1920.

SHIH HSING CHANG, Bachelor of Science (Mechanical Engineering)  
 ANDREW HOYLE CHARLES, JR., Bachelor of Science (Ceramic Engineering)  
 LOUIS WALTER CHARLET, Bachelor of Science (Mechanical Engineering)  
 ANNA BELLE CHASE, Bachelor of Science (Education)  
 OSCAR ALLEN CHERRY, Bachelor of Science (Science)<sup>1</sup>  
 FERNE CHOISSER, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 GEORGE PHILLIP CHRIST, Bachelor of Science (Chemical Engineering)  
 ROBERT JOHNSON CHRIST, Bachelor of Science (Civil Engineering)  
 STANLEY MARINUS CHRISTOPHERSON, Bachelor of Science (Electrical Engineering)  
 WOODFORD McDOWELL CHURCHILL, Bachelor of Science (Agriculture)  
 LEWIS ARTHUR CLARAHAN, Bachelor of Science (Commerce)  
 ALBERT LEROY CLARK, Bachelor of Science (Agriculture)<sup>3</sup>  
 EPHRAIM STUART CLARK, Bachelor of Science (Commerce)  
 HAROLD DEAN CLARK, Bachelor of Science (Commerce)  
 JENNIE CLARK, Bachelor of Science (Home Economics)  
 MARSHALL GRANT CLARK, Bachelor of Science (Agriculture)  
 LEOPOLDO S DE LA ROSA CLEMENTE, Bachelor of Science (Agriculture)<sup>1</sup>  
 WOODBRIDGE KENNETH CLIFFORD, Bachelor of Science (Agriculture)<sup>3</sup>  
 HELEN DOROTHY COBB, Bachelor of Arts (Liberal Arts)  
 FLORENCE ALWILDA COCHRAN, Bachelor of Arts (Liberal Arts)  
 RUSSELL WILLIAM COCHRAN, Bachelor of Arts (Liberal Arts)  
 SAM HENRY COILE, Bachelor of Science (Architecture)  
 ELMOR DELL COLLINGS, Bachelor of Arts (Liberal Arts)  
 WILLIAM TRACY COLWELL, Bachelor of Science (Civil Engineering)  
 RAMOND GREEN COLYER, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 FRANK WATROUS CONDON, Bachelor of Science (Electrical Engineering)  
 MARGARET ADELE CONDON, Bachelor of Science (Education)  
 ALMON MORTIMER CONGER, Bachelor of Science (Electrical Engineering)  
 CAROL CONSTANCE CONKLIN, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 MAE CONLEY, Bachelor of Arts (Home Economics)  
 HOWARD HAYDON COOK, Bachelor of Science (Commerce)  
 ISADORE EARL COOPER, Bachelor of Science (Science)<sup>4</sup>  
 HAROLD FLEMING COPE, Bachelor of Arts (Liberal Arts)  
 ESTHER CORBETT, Bachelor of Science (Home Economics)  
 GLADYS CORBLY, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 KATHERINE MARY CORCORAN, Bachelor of Arts (Liberal Arts)  
 LESTER LYNN CORRIE, Bachelor of Science (Agriculture)  
 MAURICE LAROV COTTA, Bachelor of Science (Municipal and Sanitary Engineering)  
 ALICE IRENE COUCHMAN, Bachelor of Arts (Liberal Arts)  
 OLIVE COVER, Bachelor of Arts (Liberal Arts)  
 SYLVIA COVER, Bachelor of Science (Home Economics)  
 JOHN COUNTRYMAN CRAFT, Bachelor of Science (Agriculture)  
 BERT HARRISON CRANDALL, Bachelor of Science (Education)<sup>3</sup>  
 EARL MELVILLE CRANDELL, Bachelor of Science (Agriculture)  
 MARTIN CRANE, Bachelor of Science (Mining Engineering)<sup>3</sup>  
 JOHN MONTGOMERY CREBS, JR., Bachelor of Science (Commerce)<sup>4</sup>  
 DAVID EDWARD CREIGHTON, Bachelor of Science (Agriculture)  
 LOLA MERLE CREMEANS, Bachelor of Arts (Home Economics)  
 ORVILLE JENNINGS CREWS, Bachelor of Science (Commerce)  
 CHARLES HAROLD CRIM, Bachelor of Science (Civil Engineering)  
 KATHERINE WHEELER CULLEN, Bachelor of Arts (Liberal Arts)  
 VICTOR CULLIN, Bachelor of Science (Commerce)  
 HAZEL CURTIS, Bachelor of Arts (Liberal Arts)  
 JOHN HOWARD CUSTER, Bachelor of Science (Commerce)  
 LLOYD ELWELL CUTLER, Bachelor of Science (Agriculture)  
 ARTHUR ALOYSIUS DAILEY, Bachelor of Arts (Liberal Arts)  
 CHARLES S DALE, Bachelor of Science (Education)<sup>2</sup>  
 ANSELMO FULTON DAPPERT, Bachelor of Science (Civil Engineering)  
 BERNARD EUGENE DAVIDSON, Bachelor of Science (Civil Engineering)  
 GAYLORD STILLMAN DAVIDSON, Bachelor of Arts (Commerce)  
 GENEVIEVE ALICE DAVIDSON, Bachelor of Science (Liberal Arts)  
 CHARLES BREWER DAVIS, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 KENNETH ISAAC DAVIS, Bachelor of Science (Commerce)  
 VERONICA DAVIS, Bachelor of Music<sup>1</sup>  
 LOUIS EDWARD DAWSON, Bachelor of Science (Chemical Engineering)  
 OWEN LAFAYETTE DAWSON, Bachelor of Science (Agriculture)  
 ROBERT HARVEY DAWSON, Bachelor of Science (Electrical Engineering)  
 WILBUR FRANKLIN DAY, Bachelor of Science (Science)<sup>1</sup>  
 WAYLAND W DAYTON, Bachelor of Science (Agriculture)<sup>3</sup>  
 WALTER CHARLES DEGROOT, Bachelor of Science (Agriculture)<sup>3</sup>  
 DOROTHY DELL, Bachelor of Arts (Home Economics)  
 MILO FRANK DENICK, Bachelor of Science (Mechanical Engineering)  
 IRVING ALSON DENISON, Bachelor of Science (Agriculture)  
 JULIEN WALTER DEVLIN, Bachelor of Science (Commerce)  
 FRANK JOSEF DICK, Bachelor of Arts (Liberal Arts)  
 LAWRENCE EVANS DICKSON, Bachelor of Arts (Liberal Arts)  
 HOMER RAY DIETMEIER, Bachelor of Science (Liberal Arts)  
 MARIE ALENA DIETZ, Bachelor of Arts (Liberal Arts)  
 CARL BUSH DIPPPELL, Bachelor of Science (Architectural Engineering)  
 MARY LOUISE DIXON, Bachelor of Arts (Liberal Arts)

<sup>1</sup>With thesis.<sup>2</sup>Degree conferred November 19, 1920.<sup>3</sup>Degree conferred March 9, 1920.<sup>4</sup>Degree conferred August 14, 1920.<sup>5</sup>Degree conferred December 14, 1920.

DOROTHY ANN DONOHUE, Bachelor of Arts (Liberal Arts)  
 CLEM DANIEL DOOLEN, Bachelor of Science (Railway Electrical Engineering)  
 HELEN ELIZABETH DOOLEY, Bachelor of Arts (Liberal Arts)  
 ELEANOR HEDGECOCK DORSETT, Bachelor of Arts (Liberal Arts)  
 BERTHA MARIE DORULLIS, Bachelor of Arts (Liberal Arts)  
 HENRY FAIRCHILD DOTY, Bachelor of Science (Commerce)  
 HENRY DOUBET, Bachelor of Science (Chemical Engineering)  
 ROBERT HUGHES DOUGHERTY, Bachelor of Science (Science)<sup>1</sup>  
 JOHN MATHENY DOWD, Bachelor of Arts (Liberal Arts)  
 FRANK BUTLER DOYLE, Bachelor of Science (Electrical Engineering)  
 MORRIS EDWARD DREYFUS, Bachelor of Science (Chemical Engineering)  
 STANLEY S DREYFUS, Bachelor of Science (Commerce)  
 ARTHUR WILLIAM DRUMMET, Bachelor of Science (Agriculture)  
 ROBERT ALEXANDER DRYSDALE, Bachelor of Arts (Liberal Arts)  
 LENORE DUBOIS, Bachelor of Music<sup>2</sup>  
 WALTER EDWARD DUERINGER, Bachelor of Science (Mechanical Engineering)  
 MILDRED DUMKE DUFRAIN, Bachelor of Arts (Liberal Arts)  
 GLENN DUNBAR, Bachelor of Science (Agriculture)  
 GEORGIENA EVELYN DUNN, Bachelor of Arts (Home Economics)  
 CLIFFORD GORDON DUNPHY, Bachelor of Science (Commerce)  
 RUTH MARION DUNTLEY, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 JOSEPH DVORAK, Bachelor of Science (Architecture)<sup>1</sup>  
 AUDREY DYKEMAN, Bachelor of Science (Education)  
 REA LINCOLN EATON, Bachelor of Science (Agriculture)<sup>1</sup>  
 MARY JOSEPHINE EDDY, Bachelor of Arts (Liberal Arts)  
 JAMES BERESFORD EDWARDS, JR., Bachelor of Science (Commerce)  
 WILLIAM HERBERT EDWARDS, Bachelor of Science (Civil Engineering)  
 ADRIAN J EICHBERG, Bachelor of Arts (Liberal Arts)  
 EDWARD EICHENBERGER, Bachelor of Arts (Liberal Arts)  
 AMOS R EIKENBERRY, Bachelor of Science (Agriculture)<sup>3</sup>  
 LEAH ESTINE ELDRIDGE, Bachelor of Arts (Home Economics)  
 ERICH GEORGE ELG, Bachelor of Science (Railway Electrical Engineering)  
 CHARLES LYMAN ELLIS, Bachelor of Science (Architectural Engineering)  
 WALTER ENICH, Bachelor of Science (Civil Engineering)<sup>1</sup>  
 ROBERT SIMPSON EMERY, Bachelor of Science (Commerce)  
 LORA MAY ENGELHARDT, Bachelor of Arts (Home Economics)  
 MYNETTA MARY MARGARET ENGELLAND, Bachelor of Arts (Home Economics)  
 GLENN LEWIS ENGLAND, Bachelor of Science (Electrical Engineering)  
 ADRIAN EDSON ERICKSON, Bachelor of Science (Commerce)  
 ESTHER MARIE ERICKSON, Bachelor of Science (Home Economics)  
 HELEN ORPHA ERNEST, Bachelor of Music<sup>4</sup>  
 MURRY GREENLEAF ESPY, Bachelor of Science (Agriculture)  
 ESTHER LILLIAN ESSLINGER, Bachelor of Arts (Liberal Arts)  
 SAMUEL EDWARDS FAIRCLOTH, Bachelor of Science (Mechanical Engineering)  
 JACOB ALEX FARBER, Bachelor of Science (Chemical Engineering)  
 RUTH MARIE FARMER, Bachelor of Music<sup>4</sup>  
 OTHO SAMUEL FASIG, Bachelor of Arts (Liberal Arts)  
 HARRY LEE FAULK, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 RUDOLPH ALFRED FAUST, Bachelor of Science (Science)<sup>4</sup>  
 ESTHER CAROLYN FEDDERSON, Bachelor of Arts (Liberal Arts)  
 NATHAN FELDMAN, Bachelor of Science (Mechanical Engineering)<sup>1</sup>  
 JOHN BENJAMIN FELMLEY, Bachelor of Science (Architectural Engineering)  
 WILBERT HOMER FERGUSON, Bachelor of Science (Commerce)<sup>1</sup>  
 LETITIA LEHMAN FERREE, Bachelor of Science (Home Economics)  
 ISADORE LEONARD FINE, Bachelor of Science (Science)<sup>4</sup>  
 VIVIAN MARY FISH, Bachelor of Arts (Liberal Arts)  
 PAUL FISHER, Bachelor of Science (Agriculture)  
 LOIS RUMSEY FISHMAN, Bachelor of Arts (Liberal Arts)  
 JAMES CLAUDE FITZPATRICK, Bachelor of Science (Mining Engineering)  
 ERASTUS IMMANUEL FJELD, Bachelor of Science (Commerce)<sup>2</sup>  
 ELLEN MILTON FLEMING, Bachelor of Arts (Home Economics)  
 OSCAR JONATHAN FLEMING, JR., Bachelor of Science (Mechanical Engineering)  
 MAYOR FARTHING FOGLER, Bachelor of Science (Science)<sup>4</sup>  
 LORENZO STEPHEN FOOTE, Bachelor of Science (Agriculture)  
 MARY ESTHER BALLARD FORSTER ((MRS.)), Bachelor of Science (Home Economics)  
 LOTTIE VIOLA FOWLER, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 AUSTIN FOX, Bachelor of Science (Commerce)  
 ARTHUR JOHN FRANKS, Bachelor of Science (Chemical Engineering)  
 GLADYS GENEVRA FRASER, Bachelor of Arts (Liberal Arts)  
 IRMA MAGDALENE FRASER, Bachelor of Arts (Liberal Arts)  
 DOROTHY CAROLINE FRAZIER, Bachelor of Science (Home Economics)  
 GLENN WILLIAM FREDE, Bachelor of Science (Commerce)<sup>1</sup>  
 VICTORIA FREDERICK, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 JOHN SPROUT FRENCH, Bachelor of Arts (Liberal Arts)  
 JONATHAN RALPH FRITZE, Bachelor of Science (Chemical Engineering)  
 ELMER PHILIP FROHARDT, Bachelor of Science (Agriculture)<sup>1</sup>  
 ELLEN VIOLA FRYKHOLM, Bachelor of Arts (Liberal Arts)  
 AGNES FULLER, Bachelor of Arts (Liberal Arts)  
 FLORENCE STORMFELTZ FULLER, Bachelor of Arts (Home Economics)<sup>1</sup>  
 DOROTHY STEEN FULTZ, Bachelor of Arts (Home Economics)

<sup>1</sup>Degree conferred March 9, 1920.<sup>2</sup>Degree conferred August 14, 1920.<sup>3</sup>Degree conferred November 19, 1920<sup>4</sup>With thesis.

PAUL MARCUS FURR, Bachelor of Science (Agriculture)  
 MILDRED GAGE, Bachelor of Arts (Liberal Arts)  
 LYLE HUGO GALLIVAN, Bachelor of Science (Architectural Engineering)  
 SETURUM SADISIV GANDHEKER, Bachelor of Science (Science)<sup>1</sup>  
 LAURENCE PAUL GANNON, Bachelor of Science (Civil Engineering)<sup>2</sup>  
 GRACE DOROTHY GANTZ, Bachelor of Arts (Liberal Arts)  
 ROBERT PARKER GARDINER, Bachelor of Science (Chemical Engineering)  
 MELVIN NAVE GARLOUGH, Bachelor of Science (Architectural Engineering)  
 RAY LIN GARMAN, Bachelor of Science (Agriculture)  
 GEORGE HARRY GARRISON, Bachelor of Arts (Liberal Arts)  
 WALTER FERDINAND GAST, Bachelor of Science (Commerce)  
 OSCAR HERMAN GEHLBACH, Bachelor of Science (Commerce)  
 MARIE GERTRUDE GEISS, Bachelor of Arts (Home Economics)<sup>3</sup>  
 HARRY WILSON GIBSON, JR., Bachelor of Arts (Commerce)  
 LYLE HENRY GIFT, Bachelor of Science (Agriculture)<sup>4</sup>  
 WINONA MAYBLE GILLAM, Bachelor of Science (Agriculture)<sup>1</sup>  
 GERALD SNYDER GIMRE, Bachelor of Science (Agriculture)  
 ALMA ZELLA GLANZNER, Bachelor of Arts (Home Economics)  
 VERNON LESLIE GLOVER, Bachelor of Science (Civil Engineering)  
 ROBERT JOSEPH GNAEDINGER, Bachelor of Science (Chemical Engineering)  
 IVAN BEAN GOBLE, Bachelor of Science (Commerce)  
 WALTHER FREDERICK GOEBEL, Bachelor of Arts (Liberal Arts)  
 MARIE GOLDEN, Bachelor of Arts (Liberal Arts)  
 LAURA LAVONIA GOODING, Bachelor of Science (Home Economics)  
 FRANK ALLYN GORDON, Bachelor of Science (Science)<sup>4</sup>  
 KENNETH HICKOK GORDON, Bachelor of Science (Electrical Engineering)  
 HELEN RAY GOSSARD, Bachelor of Arts (Liberal Arts)  
 PHILIP NEWHALL GOULD, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 SAMUEL JULES GOULD, Bachelor of Science (Chemical Engineering)  
 GORDON CLAGUE GRAHAM, Bachelor of Science (Mechanical Engineering)  
 CLARA MAY GRAYBILL, Bachelor of Arts (Liberal Arts)  
 RUTH ANN MARIA GREENMAN, Bachelor of Arts (Liberal Arts)  
 FREDERICK RUSSELL GRIDLEY, Bachelor of Science (Civil Engineering)  
 LOUISE COLEMAN GRIFFITH (MRS.), Bachelor of Arts (Liberal Arts)  
 WENDELL CRABTREE GRIFFITH, Bachelor of Science (Commerce)  
 GRACE MABEL GRIFFITHS, Bachelor of Arts (Liberal Arts)  
 GLADYS GRIGG, Bachelor of Arts (Liberal Arts)  
 MARSHALL CLYDE GRIGGS, Bachelor of Science (Commerce)  
 THOMAS CARLYLE GRIMM, Bachelor of Arts (Liberal Arts)  
 DOROTHY LILLIAN GROSS, Bachelor of Arts (Home Economics)  
 HARVEY CHARLES GROTH, Bachelor of Science (Railway Civil Engineering)  
 DONALD DANA GROVER, Bachelor of Science (Architectural Engineering)<sup>2</sup>  
 CARL FREDERICK GRUNEWALD, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 REGINA LOUISE GUENTHER, Bachelor of Arts (Liberal Arts)  
 RENE GUIET, Bachelor of Arts (Liberal Arts)  
 FRANCIS STANISLAUS ROMAN GURDA, Bachelor of Science (Architectural Engineering)  
 HARRY GEORGE HAAKE, Bachelor of Science (Civil Engineering)  
 RAYMOND CHRISTIAN HAAS, Bachelor of Science (Commerce)  
 GLENN MERLIN HALDEMAN, Bachelor of Science (Electrical Engineering)  
 CEDRIC HALE, Bachelor of Science (Chemical Engineering)  
 CECIL JAMES HALL, Bachelor of Science (Commerce)  
 HARRIETT VIRGINIA HALLADAY, Bachelor of Arts (Liberal Arts)  
 MARY IRENE HAMER, Bachelor of Arts (Liberal Arts)  
 HOLBROOK BECKER HAMILTON, Bachelor of Science (Commerce)  
 MARJORIE BERNICE HAMILTON, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 RAY LEONIDAS HAMILTON, Bachelor of Arts (Liberal Arts)  
 INA MARIE HAMLIN, Bachelor of Science (Commerce)  
 JULIUS HANDLER, Bachelor of Science (Chemical Engineering)  
 JAMES EDWARD HANSEN, Bachelor of Science (Science)<sup>1</sup>  
 MARION BOYER HARLAND, Bachelor of Science (Agriculture)  
 ELIZABETH FERN HARPER, Bachelor of Arts (Liberal Arts)  
 MAURICE HARRIS, Bachelor of Science (Science)<sup>4</sup>  
 JOHN WILLIAM HARSCH, Bachelor of Science (Chemical Engineering)  
 MARION MURPHY HART, Bachelor of Arts (Liberal Arts)  
 ALFRED DALLAS HARVEY, Bachelor of Science (Liberal Arts)  
 JAMES DEWEY HAVENS, Bachelor of Science (Commerce)  
 JANET MCQUE HAWKES, Bachelor of Arts (Liberal Arts)  
 ARTHUR WELLESLEY HAYFORD, Bachelor of Science (Chemical Engineering)  
 WILLIAM CARLETON HEALY, Bachelor of Arts (Commerce)  
 WALTER CHRIS HECKMAN, Bachelor of Science (Electrical Engineering)  
 ARTHUR MANDEL HEDA, Bachelor of Science (Architectural Engineering)  
 JESSAMINE FERNE HEDGCOCK, Bachelor of Arts (Home Economics)  
 SAMUEL IRVING HEIKES, Bachelor of Science (Commerce)<sup>4</sup>  
 THORVALD EDWARD HEMB, Bachelor of Science (Commerce)  
 VICTOR MAX HENRY, Bachelor of Science (Agriculture)  
 CHARLES NEWELL HENSON, Bachelor of Science (Commerce)  
 CLARENCE CHARLES HERRMANN, Bachelor of Science (Commerce)  
 GLADYS ELIZABETH HERSMAN, Bachelor of Arts (Home Economics)  
 HENRY BAILIE HESEMAN, Bachelor of Science (Commerce)  
 JOSEPH HENRY ANTHONY HEUER, Bachelor of Science (Civil Engineering)<sup>2</sup>

<sup>1</sup>With thesis.

<sup>2</sup>Degree conferred March 9, 1920.

<sup>3</sup>Degree conferred August 14, 1920.

<sup>4</sup>Degree conferred November 19, 1920.

EDITH HIRSHARD, Bachelor of Arts (Home Economics)  
 JAMES HERRBERT HIBBEN, Bachelor of Science (Liberal Arts)  
 PERYL FRANCES HICKMAN, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 JOHN EMER HICKS, Bachelor of Science (Agriculture)  
 GERTRUDE OZETA HILL, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 HAROLD WAYNE HILL, Bachelor of Arts (Liberal Arts)  
 FLOYD BEATTY HOBART, Bachelor of Science (Science)<sup>1</sup>  
 HAROLD LEONARD HOFFMAN, Bachelor of Science (Commerce)  
 ETHEL MARY HOLLANDER, Bachelor of Science (Commerce)<sup>2</sup>  
 OITA MEYER HOLZMAN, Bachelor of Science (Chemical Engineering)  
 HERBERT OTTO HOPE, Bachelor of Arts (Liberal Arts)  
 GLADYS ESTELLA HOPPIN, Bachelor of Arts (Liberal Arts)  
 KENNETH CHAUNCEY HORRALL, Bachelor of Science (Commerce)  
 JOSEPH COLUMBUS HOSTETTER, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 CHARLES HOWARD HOULT, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 CHARLES GERARD HOWARD, Bachelor of Arts (Liberal Arts)  
 CLIFFORD HOWE, Bachelor of Science (Commerce)<sup>3</sup>  
 HERSEL WINDEL HUDSON, Bachelor of Science (Agriculture)  
 KATHERINE HUFF, Bachelor of Arts (Liberal Arts)  
 HARRY ARNOLD HUISKEN, Bachelor of Science (Ceramic Engineering)  
 TRUSTUM HAROLD HULL, Bachelor of Science (Commerce)  
 MARTHA BLAIR HUMPHREY, Bachelor of Arts (Home Economics)  
 HELEN LUCILE HUNT, Bachelor of Science (Education)  
 LLOYD LUCIUS HUNTINGTON, Bachelor of Science (Architectural Engineering)  
 HARVEY RUSSELL HUNTLEY, Bachelor of Science (Agriculture)  
 ANNA ELIZABETH HUTCHINS, Bachelor of Arts (Liberal Arts)  
 RALPH LINDSAY INGRAM, Bachelor of Science (Agriculture)  
 BURTON AHRRENS INGWERSEN, Bachelor of Science (Civil Engineering)  
 JOHN ARTHUR INGWERSEN, Bachelor of Arts (Liberal Arts)  
 HOWARD PHILIP IWIG, Bachelor of Arts (Commerce)  
 HARRY HOBART JACKSON, Bachelor of Science (Civil Engineering)  
 RALPH WILLIAM JACKSON, Bachelor of Science (Education)<sup>2</sup>  
 STANLEY ANTON JAKUBOWSKI, Bachelor of Science (Mechanical Engineering)  
 ANTON JAMES JANATA, Bachelor of Arts (Liberal Arts)  
 MYRTLE RUTH JENSEN, Bachelor of Arts (Liberal Arts)  
 CLORNA ELEANOR JOHNSON, Bachelor of Science (Home Economics)  
 EDWIN REYNOLDS JOHNSON, Bachelor of Science (Commerce)  
 MILDRED JOHNSON, Bachelor of Arts (Home Economics)  
 RALPH BENJAMIN JOHNSON, Bachelor of Science (Mechanical Engineering)  
 BERNICELYN FISHBACK JONES, Bachelor of Arts (Liberal Arts)  
 FLORENCE DOROTHEA JONES, Bachelor of Science (Education)  
 MARJORIE ANNE JONES, Bachelor of Arts (Liberal Arts)  
 WILLIAM ROBERT JONES, Bachelor of Science (Agriculture)  
 EMILY KATHRYN JORDAN, Bachelor of Arts (Liberal Arts)  
 ROY VAIL JORDAN, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 SCOTT MILHOLLAND JULIAN, Bachelor of Science (Agriculture)  
 MOSES MORRIS KATZ, Bachelor of Science (Science)<sup>1</sup>  
 GEORGE FREDERICK KECK, Bachelor of Science (Architectural Engineering)  
 CLARENCE BARNHART KEEHNER, Bachelor of Science (Commerce)  
 WILLARD FLOYD KEEPERS, Bachelor of Science (Agriculture)<sup>3</sup>  
 WILLIAM LLOYD KEEPERS, Bachelor of Science (Agriculture)<sup>3</sup>  
 CHARLES DELBERT KEMP, Bachelor of Science (Agriculture)  
 EMILY JANE KENNEDY, Bachelor of Arts (Liberal Arts)  
 THOMAS EUGENE KENNEDY, Bachelor of Science (Commerce)  
 CHARLES DELBERT KEMP, Bachelor of Science (Agriculture)  
 EMILY JANE KENNEDY, Bachelor of Arts (Liberal Arts)  
 THOMAS EUGENE KENNEDY, Bachelor of Science (Commerce)  
 WENDELL LYONS KENNEY, Bachelor of Science (Electrical Engineering)  
 PAUL FRAZER KENT, Bachelor of Science (Civil Engineering)<sup>3</sup>  
 EMIL LORENZO KERCHNER, Bachelor of Arts (Liberal Arts)  
 LILACE MAZOE KIDD, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 JOHN WILLIAM KINMAN, Bachelor of Science (Agriculture)<sup>3</sup>  
 VINCENT PAUL KING, Bachelor of Science (Agriculture)  
 PERCY LEROY KINSEY, Bachelor of Science (Agriculture)  
 ESTHER ELOISE KINSEY, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 EMMA ESTHER KIRCHHOFFER, Bachelor of Science (Commerce)  
 ESTHER ONEITA KIRK, Bachelor of Arts (Home Economics)  
 NANNIE MAREA KITCHELL, Bachelor of Arts (Liberal Arts)  
 ZENIAR KIZER, Bachelor of Arts (Liberal Arts)  
 GEORGE MALBURN KLECKNER, Bachelor of Science (Commerce)  
 FREDERICK KLENK, Bachelor of Science (Municipal and Sanitary Engineering)  
 CARL LAWRENCE KLING, Bachelor of Science (Ceramic Engineering)  
 MILDRED CAREY KNAPHEIDE, Bachelor of Arts (Liberal Arts)  
 GALEN VICTOR KNIGHT, Bachelor of Science (Commerce)<sup>3</sup>  
 HERMAN FRANK AUGUST KOEPKE, Bachelor of Science (Civil Engineering)  
 MORRIS LOUIS KOMROSKY, Bachelor of Science (Architecture)  
 WALTER GEORGE KOUPAL, Bachelor of Science (Science)<sup>3</sup>  
 CHARLES HENRY KRAMER, Bachelor of Science (Mechanical Engineering)  
 ELSA LOUISE KRENZ, Bachelor of Arts (Liberal Arts)  
 WILLIAM ENOCH KRIEGER, Bachelor of Arts (Commerce)<sup>3</sup>

<sup>1</sup>With thesis.<sup>2</sup>Degree conferred August 14, 1920.<sup>3</sup>Degree conferred March 9, 1920.<sup>4</sup>Degree conferred November 19, 1920.



MILDRED CAROLYN KUCH, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 THEODORE KRUGER, Bachelor of Science (Mechanical Engineering)  
 MARTHA KUGLER, Bachelor of Arts (Home Economics)<sup>2</sup>  
 CLARENCE RUSSELL LABIER, Bachelor of Arts (Liberal Arts)  
 RUSSELL JAMES LAIBLE, Bachelor of Science (Agriculture)  
 FLORIAN LAMPERT, JR., Bachelor of Science (Architectural Engineering)  
 ALVIN LEONARD LANG, Bachelor of Science (Agriculture)  
 PAUL EUGENE LANGDON, Bachelor of Science (Civil Engineering)  
 EDWARD LARSON, Bachelor of Science (Science)<sup>3</sup>  
 MARCELLE VERE LAVAL, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 ARTHUR LEE, Bachelor of Science (Architecture)<sup>3</sup>  
 MARION ELAINE LEETE, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 NEIL MCLEAN LEITCH, Bachelor of Arts (Liberal Arts)  
 OSA LOIS LENT, Bachelor of Arts (Home Economics)  
 LEO LEWITAN, Bachelor of Science (Mechanical Engineering)<sup>2</sup>  
 DAVID CARL LIGGETT, Bachelor of Science (Liberal Arts)  
 ROBERT W LILLEY, Bachelor of Science (Mechanical Engineering)  
 FLORENCE ELNORA LINDAHL, Bachelor of Arts (Liberal Arts)  
 LAWRENCE JAY LINDSAY, Bachelor of Science (Agriculture)  
 RALPH ELDER LINDSEY, Bachelor of Science (Architectural Engineering)  
 THOMAS MORGAN LIVINGSTON, Bachelor of Science (Agriculture)  
 MARIE EDITH LLEWELLYN, Bachelor of Arts (Liberal Arts)  
 LAWRENCE DUNCAN LLOYD, Bachelor of Arts (Liberal Arts)  
 EMILY FEDELIA LOOMIS, Bachelor of Arts (Liberal Arts)  
 LEONOR LOPEZ, Bachelor of Arts (Liberal Arts)  
 CHARLES ERNEST LOVEJOY, JR., Bachelor of Science (Commerce)  
 CHINGHAI HIRAM LOWE, Bachelor of Science (Agriculture)  
 JACK LOWITZ, Bachelor of Science (Commerce)  
 ARNOLD ALINDER LUNDGREN, Bachelor of Science (Civil Engineering)  
 WILHELMINA CAROLINE LUTHER, Bachelor of Arts (Liberal Arts)  
 MARIAN PACE MCANALLY, Bachelor of Arts (Liberal Arts)  
 CECELIA MARY MCCARTHY, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 LYMAN CLAWSON MCCASKILL, Bachelor of Science (Agriculture)  
 GLADYS BERNICE MCCASLIN, Bachelor of Arts (Liberal Arts)  
 MARY EDNA MCCAULL, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 OLIVE MAINE MCCAY, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 HELEN EVELYN MCCONNELL, Bachelor of Arts (Liberal Arts)  
 THOMAS HUME MCCORMACK, Bachelor of Arts (Liberal Arts)  
 HELEN ELIZABETH MCCUTCHEEN, Bachelor of Arts (Liberal Arts)  
 BERTHA GALIE McDUGALL, Bachelor of Arts (Liberal Arts)  
 JOHN KEENEY McDOWELL, Bachelor of Science (Agriculture)  
 WILLIAM EARLE McELDOWNEY, Bachelor of Science (Commerce)  
 HELEN CATHERINE McELHINEY, Bachelor of Arts (Liberal Arts)  
 WILLIAM EDGAR McELROY, Bachelor of Science (Commerce)  
 ERNEST MCEVERS, Bachelor of Science (Electrical Engineering)  
 MARIAN CRAIG MACGREGOR, Bachelor of Arts (Home Economics)  
 LEO GLENN MCINTIRE, Bachelor of Science (Commerce)  
 GEORGE SOUTHWELL McLAUGHLIN, Bachelor of Science (Electrical Engineering)  
 JAMES ROBERT McLAUGHLIN, Bachelor of Science (Electrical Engineering)  
 WALTER WYLLIE McLAUGHLIN, Bachelor of Science (Agriculture)  
 ELSIE MARGARET McMAHON, Bachelor of Science (Commerce)  
 GLADYS ELEANOR MCSHEA, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 DOROTHY AARD MACKAY, Bachelor of Arts (Home Economics)<sup>2</sup>  
 MILDRED KIRTLAND MAGERS, Bachelor of Arts (Liberal Arts)  
 ERNEST LOUIS MALAPERT, Bachelor of Science (Commerce)<sup>4</sup>  
 DAVID KRAUSE MALCOLMSON, Bachelor of Science (Mining Engineering)  
 LOIS EVANS MALLORY, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 ROE EUGENE MALLSTROM, Bachelor of Science (Commerce)  
 FRANCES JOSEPHINE MALONEY, Bachelor of Arts (Liberal Arts)  
 MARSHALL RAYMOND MALSBUURY, Bachelor of Science (Agriculture)<sup>1</sup>  
 SHIRLEY MANN, Bachelor of Science (Home Economics)<sup>2</sup>  
 CAROLINE ELIZABETH MANSPEAKER, Bachelor of Science (Commerce)  
 OLEN CROW MARKWELL, Bachelor of Science (Agriculture)  
 VINCENT BRUSH MARQUIS, Bachelor of Science (Science)<sup>1</sup>  
 BESSIE ELLEN MARSH, Bachelor of Science (Home Economics)  
 ELMER EDWARD MARK, Bachelor of Science (Commerce)  
 ARTHUR R MATHENY, Bachelor of Science (Education)<sup>3</sup>  
 FREDERICK GOTTLIEB MAURER, Bachelor of Science (Commerce)<sup>2</sup>  
 CLYDE EVERETT MAXWELL, JR., Bachelor of Science (Agriculture)<sup>3</sup>  
 EHRMA PAULINE MEADE, Bachelor of Arts (Liberal Arts)  
 ROBERT WOODRUFF MEALS, Bachelor of Science (Agriculture)  
 PHILIP ROLLEN MELANGTON, Bachelor of Science (Commerce)  
 ALTHEA AMARYLLIS MERCHANT, Bachelor of Arts (Liberal Arts)  
 DAVID FLEMLEY MERKER, Bachelor of Science (Agriculture)  
 FREDERICK WILLIAM MEYER, JR., Bachelor of Arts (Liberal Arts)  
 HOWARD AUGUSTUS MEYERHOFF, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 WILLIAM MANFORD MICHAEL, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 IRENE ELEANOR MICHE, Bachelor of Arts (Liberal Arts)  
 JOSEPHINE KINGSTON MILES, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 CARL ROSCOE MILLER, Bachelor of Arts (Liberal Arts)

<sup>1</sup>With thesis.

<sup>2</sup>Degree conferred November 19, 1920.

<sup>3</sup>Degree conferred March 9, 1920.

<sup>4</sup>Degree conferred August 14, 1920.

CLIFTON WARNER MILLER, Bachelor of Science (Civil Engineering)  
 WILBUR GLENN MILLER, Bachelor of Science (Architectural Engineering)  
 IRMA NAOMI MONOHON, Bachelor of Arts (Home Economics)  
 WINIFRED MONTGOMERY, Bachelor of Arts (Home Economics)  
 GEORGE WILKINSON MOORE, Bachelor of Science (Agriculture)<sup>1</sup>  
 HELEN MABELLE MOORE, Bachelor of Arts (Liberal Arts)  
 WALTER RAYMOND MOORE, Bachelor of Science (Agriculture)  
 PHILIP JOHNSTON MOREY, Bachelor of Science (Agriculture)  
 WILLIAM RAY MORGAN, Bachelor of Science (Ceramic Engineering)  
 GRACE ELEANORE MORRIS, Bachelor of Arts (Home Economics)  
 CARL RAYMOND MORRISON, Bachelor of Science (Mechanical Engineering)  
 RUSSELL HOWARD MORRISON, Bachelor of Science (Commerce)  
 ALICE MAE MORSE, Bachelor of Arts (Liberal Arts)  
 RICHARD IRVING MORSE, Bachelor of Science (Agriculture)  
 CLARA IRENE MOSBY (MRS.), Bachelor of Science (Home Economics)  
 WALTER RUDOLPH MUELLER, Bachelor of Science (Architectural Engineering)  
 MORRIS GEORGE MUNSEN, Bachelor of Science (Commerce)  
 GEORGE THOMAS MURPHY, Bachelor of Arts (Liberal Arts)  
 BERNADINE EDNA MURRAY, Bachelor of Arts (Liberal Arts)  
 LEONARD ELY MURRAY, Bachelor of Science (Architectural Engineering)  
 MORRIS ROSENTHAL MYERS, Bachelor of Science (Commerce)  
 MARGUERITA NEEDHAM, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 SIMON JACOB NEILBURG, Bachelor of Science (Electrical Engineering)  
 RUDOLPH STOKES NELSON, Bachelor of Science (Science)<sup>2</sup>  
 MILO HUGO NEUENSCHWANDER, Bachelor of Music  
 MORTON GROSS NEUMANN, Bachelor of Science (Liberal Arts)  
 SIDNEY NEWMAN, Bachelor of Science (Commerce)  
 HELEN CHARLOTTE NEWTON, Bachelor of Science (Home Economics)  
 PHILIP ALFRED NIEBERGALL, Bachelor of Science (Commerce)  
 HARRY FERN NOLEN, Bachelor of Science (Mechanical Engineering)<sup>3</sup>  
 HELEN MARGARET NORTH, Bachelor of Arts (Liberal Arts)  
 ETHAN ARLO NORTON, Bachelor of Science (Agriculture)  
 JORGE VIZCAINO OCHOA, Bachelor of Science (Electrical Engineering)  
 FRED GEORGE OLBRICH, Bachelor of Science (Civil Engineering)  
 OSCAR HELMER OLSON, Bachelor of Science (Mechanical Engineering)  
 DORA OMANSKY, Bachelor of Music  
 SAMUEL OMANSKY, Bachelor of Science (Architecture)<sup>4</sup>  
 FRANCES WILLARD OSBORN, Bachelor of Arts (Liberal Arts)  
 ASMYRLE HAYWARD OWEN, Bachelor of Science (Commerce)<sup>3</sup>  
 STEWART DOUGLAS OWEN, Bachelor of Arts (Liberal Arts)  
 THURSTON DORR OWENS, Bachelor of Science (Electrical Engineering)  
 MARGARET CHRISTINA PAHL, Bachelor of Arts (Home Economics)  
 FRANCES MIRIAM PARKER, Bachelor of Science (Commerce)  
 JOEL WEAVER PARKER, Bachelor of Science (Civil Engineering)  
 HAROLD LUCIEN PARR, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 THELMA HALL PARROTT, Bachelor of Arts (Liberal Arts)  
 JEANETTE MARY PATTERSON, Bachelor of Arts (Liberal Arts)  
 LEE MAYER PATTON, Bachelor of Science (Agriculture)  
 RICHARD CHALMERS PATTON, Bachelor of Arts (Liberal Arts)  
 WALTER LEE PAYNE, Bachelor of Science (Education)  
 MARVIN JAMES PEARCE, Bachelor of Science (Chemical Engineering)  
 ROBERT MILLER PEARSON, Bachelor of Science (Science)<sup>2</sup>  
 DAVID WARD PEASE, Bachelor of Science (Mechanical Engineering)  
 FREDERICK ALBERT PECK, JR., Bachelor of Science (Railway Electrical Engineering)  
 WILLIAM FRANK PERCIVAL, Bachelor of Science (Commerce)  
 IRVING LEONARD PETERSON, Bachelor of Science (Agriculture)  
 LAWRENCE EUGENE PETERSON, Bachelor of Science (Civil Engineering)<sup>1</sup>  
 LESTER CARLSLE PETERSON, Bachelor of Science (Science)<sup>2</sup>  
 SIDNEY LEROY PETERSON, Bachelor of Science (Chemical Engineering)  
 EDNA PEYTON, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 ERNEST PICKERING, Bachelor of Science (Architecture)  
 ARTHUR WILLIAM PICKETT, Bachelor of Science (Architectural Engineering)  
 ALMA JEAN PINNELL, Bachelor of Science (Home Economics)  
 WILLIAM REECE PLEW, Bachelor of Science (Architectural Engineering)  
 HARRY GEORGE PODLESAS, Bachelor of Science (Mechanical Engineering)  
 ROLAND MORTON POEHLMANN, Bachelor of Science (Agriculture)  
 ARTHUR EUGENE POLK, Bachelor of Science (Ceramic Engineering)<sup>1</sup>  
 HENRY LEE PORTER, Bachelor of Arts (Liberal Arts)  
 GEORGE RICHARDSON POSTLE, Bachelor of Science (Architecture)  
 WILLIAM IRVING POSTON, Bachelor of Science (Commerce)  
 PHIL HARRY POTTER, Bachelor of Science (Agriculture)<sup>3</sup>  
 JOHN HENDERSON POWELL, JR., Bachelor of Arts (Liberal Arts)  
 LULA IVA PRETTYMAN, Bachelor of Arts (Liberal Arts)  
 NORTIA ANN PRICE, Bachelor of Arts (Liberal Arts)  
 GINEVRA GREGORY PRICHARD (MRS.), Bachelor of Music  
 ELLIOTT ALFRED PRITCHARD, JR., Bachelor of Science (Agriculture)  
 JOHN STANLEY PROBST, Bachelor of Science (Agriculture)  
 OTTO ALBERT PROELSS, Bachelor of Science (Chemical Engineering)  
 CARRIE MAY PYLE, Bachelor of Arts (Home Economics)<sup>1</sup>  
 OLIVER FRANCIS QUIGLEY, Bachelor of Science (Mechanical Engineering)

<sup>1</sup>Degree conferred March 9, 1920.

<sup>2</sup>With thesis.

<sup>3</sup>Degree conferred November 19, 1920

<sup>4</sup>Degree conferred August 14, 1920.

CARL HENRY RADEL, Bachelor of Science (Commerce)  
 GERTRUDE AUGUSTA RAHN, Bachelor of Science (Home Economics)  
 OSCAR RANDALL, Bachelor of Science (Civil Engineering)  
 GLENN LAKE F RANDOLPH, Bachelor of Science (Electrical Engineering)  
 JOHN WILGUGHBY RANDOLPH, Bachelor of Science (Agriculture)  
 JOEL ALDEN RANNEY, Bachelor of Science (Agriculture)  
 MAURICE RUBEN RANSFORD, Bachelor of Science (Architecture)  
 WALTER EPHRAIM RASMUS, Bachelor of Science (Civil Engineering)  
 DOREN EUGENE REA, Bachelor of Science (Commerce)  
 RALPH SPEARS REDING, Bachelor of Science (Agriculture)<sup>1</sup>  
 MARY ELIZABETH REDMON, Bachelor of Arts (Liberal Arts)  
 ROBERT HOWELL REECE, Bachelor of Science (Mechanical Engineering)  
 SINA MERISSIA REED, Bachelor of Arts (Liberal Arts)  
 CHARLES THOMAS REES, Bachelor of Science (Commerce)  
 MYRON LESTER REES, Bachelor of Science (Agriculture)<sup>2</sup>  
 NEILSON WALKER REESE, Bachelor of Science (Civil Engineering)<sup>3</sup>  
 ARVID LAWRENCE REHNQUIST, Bachelor of Science (Civil Engineering)  
 WARNER GRENELLE RICE, Bachelor of Arts (Liberal Arts)  
 ORLETTA ESTELLE RIDEOUT, Bachelor of Arts (Liberal Arts)  
 FRANKLIN BLISS RINCK, Bachelor of Science (Chemical Engineering)  
 RALPH EDWIN RISLEY, Bachelor of Science (Mechanical Engineering)  
 WALTER JOHN RISLEY, JR., Bachelor of Science (Science)<sup>2</sup>  
 EDNA MAUDE ROBERTSON, Bachelor of Arts (Liberal Arts)  
 HAROLD LYNN ROBINSON, Bachelor of Science (Commerce)  
 HUGH DEAN ROBINSON, Bachelor of Science (Liberal Arts)<sup>2</sup>  
 CHARLES WILLIAM RODEWALD, Bachelor of Science (Chemical Engineering)  
 CHARLES ANDREW RODGERS, Bachelor of Arts (Liberal Arts)  
 SOMILIA LA VITA ROSENBLUM, Bachelor of Arts (Liberal Arts)  
 EDWIN ARTHUR ROSENSTONE, Bachelor of Arts (Liberal Arts)  
 WALTER JOHN ROTH, Bachelor of Science (Agriculture)<sup>1</sup>  
 EDWIN AVERY RUSSELL, Bachelor of Science (Civil Engineering)  
 MARGARET EMMA RUTLEDGE, Bachelor of Arts (Home Economics)  
 HOWARD ROBERT RYAN, Bachelor of Science (Electrical Engineering)<sup>4</sup>  
 WILLIAM HOWARD SANDERS, Bachelor of Arts (Liberal Arts)  
 PEARL ROSE SCAGGS, Bachelor of Arts (Liberal Arts)  
 LILLIAN KATHARINE SCHELL, Bachelor of Science (Home Economics)  
 PHILIP HERMAN SCHIFFLIN, Bachelor of Science (Commerce)  
 MELAINE ANNA SCHILLING, Bachelor of Science (Science)<sup>2</sup>  
 HARRY RICKER SHLAUDEMANN, Bachelor of Science (Civil Engineering)  
 JOHN JACOB SCHLOSSER, Bachelor of Science (Commerce)  
 OTTO IGNATIUS SCHMAELZLE, Bachelor of Science (Education)  
 ARTHUR EARL SCHMITT, Bachelor of Science (Electrical Engineering)  
 ESTHER FREDERICA SCHNEIDER, Bachelor of Arts (Home Economics)  
 JACOB PAUL SCHNELLBACHER, Bachelor of Science (Commerce)  
 DAYTON OSCAR SCHRADER, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 NATHAN SCHREIBER, Bachelor of Arts (Liberal Arts)  
 EDWIN HENRY SCHRIEBER, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 MALCOLM EDWARD SCHROYER, Bachelor of Arts (Liberal Arts)  
 CHARLES REDDEN SCHUH, Bachelor of Science (Commerce)  
 DEMENT SCHULER, Bachelor of Arts (Commerce)<sup>1</sup>  
 CLARENCE WILLIAM SCHULTZ, Bachelor of Science (Electrical Engineering)<sup>1</sup>  
 EMIL HENRY SCHWAGMEYER, Bachelor of Science (Commerce)  
 JULIUS SACHE SCHWEICH, Bachelor of Science (Science)<sup>2</sup>  
 BENJAMIN CECIL SCHWITZER, Bachelor of Arts (Commerce)<sup>1</sup>  
 MARY STANHOPE SCOTT, Bachelor of Arts (Liberal Arts)  
 SIDNEY GLENN SCOTT, Bachelor of Science (Commerce)<sup>3</sup>  
 ARLOS R SEDGLEY, Bachelor of Science (Architecture)  
 PAUL SEEHAUSEN, Bachelor of Science (Education)<sup>4</sup>  
 GEORGE CLEMENT SEIBERT, Bachelor of Science (Architectural Engineering)  
 HELEN EMMA SELLMER, Bachelor of Arts (Liberal Arts)  
 DORIS NAOMI SEWARD, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 ROLLA EDWARD SHADDOCK, Bachelor of Science (Agriculture)  
 CLOIDE CLAUDE SHADE, Bachelor of Science (Agriculture)  
 DOROTHY SHADE, Bachelor of Arts (Liberal Arts)  
 MARY MARGUERITE SHADE, Bachelor of Arts (Liberal Arts)  
 ABRAHAM SHAPIRO, Bachelor of Science (Mechanical Engineering)  
 BEN SHAPIRO, Bachelor of Science (Architecture)  
 DELIA SHAW, Bachelor of Arts (Home Economics)  
 WILFRED SHAW, Bachelor of Science (Agriculture)  
 FORREST ROBERT SHEDDEN, Bachelor of Science (Railway Electrical Engineering)  
 JOE ALLEN SHEVMON, Bachelor of Science (Agriculture)  
 GERTRUDE STEELE SHEADLE, Bachelor of Arts (Liberal Arts)  
 BEULAH MILFORD SHELTON, Bachelor of Arts (Liberal Arts)  
 LEILA MARGARET SIEPPARD, Bachelor of Music  
 PAUL RICHARD SHEPPARD, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 DAVID MIRVEN SHROYER, Bachelor of Science (Agriculture)  
 EDMOND JEROME SHRUM, Bachelor of Science (Agriculture)  
 FRANK VERNON SIEGLINGER, Bachelor of Science (Commerce)  
 ISADORE HERBERT SILVERMAN, Bachelor of Science (Agriculture)  
 ELWYN LEROY SIMMONS, Bachelor of Science (Architectural Engineering)

<sup>1</sup>Degree conferred March 9, 1920.

<sup>2</sup>With thesis.

<sup>3</sup>Degree conferred August 14, 1920.

<sup>4</sup>Degree conferred November 19, 1920.

- GEORGE HASKELL SIMMONS, Bachelor of Science (Electrical Engineering)  
 LAURANCE PACKER SIMPSON, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 REUBEN ADOLPHUS SKOGLUND, Bachelor of Science (Agriculture)  
 RUSSELL WADE SLOCUM, Bachelor of Science (Agriculture)  
 B HOWARD SMITH, Jr., Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 EARL JAMES SMILEY, Bachelor of Science (Civil Engineering)  
 CLOYDE MOFFETT SMITH, Bachelor of Science (Mining Engineering)  
 EUNICE EDWINA SMITH, Bachelor of Arts (Liberal Arts)  
 FOREST HENRY SMITH, Bachelor of Science (Electrical Engineering)  
 HAWLEY HAMILTON SMITH, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 KENNETH LAMBERT SMITH, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 MARION LOUISE SMITH, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 RAYMOND CHARLES SMITH, Bachelor of Science (Agriculture)  
 BEATRICE NORDICA SNOW, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 HAROLD VESEY SNYDER, Bachelor of Arts (Liberal Arts)  
 HARRY SODERBERG, Bachelor of Science (Architectural Engineering)  
 PAUL PETER SOMERS, Bachelor of Science (Science)<sup>4</sup>  
 RAYMOND JOHN SONTAG, Bachelor of Science (Commerce)  
 KEITH EMANUEL SPARKS, Bachelor of Science (Science)<sup>2</sup>  
 GLADYS MARY SPATES, Bachelor of Arts (Home Economics)  
 JOHN EDWARD SPELCE, Bachelor of Science (Chemical Engineering)  
 JOHN RALPH SPENCER, Bachelor of Science (Agriculture)  
 LOUIS SPIEGLER, Bachelor of Science (Chemical Engineering)<sup>2</sup>  
 WALTER HERBERT SPINDLER, Bachelor of Science (Civil Engineering)  
 PHIL MARION SPINK, Bachelor of Arts (Commerce)  
 FRANKLIN DAWSON SPOFFORD, Bachelor of Science (Electrical Engineering)  
 GEORGE CHESTER SPRAGUE, Bachelor of Science (Agriculture)  
 EDWARD EMERSON STAFFORD, Bachelor of Science (Commerce)  
 EUGENE MICHAEL STALLINGS, Bachelor of Science (Science)<sup>3</sup>  
 JOHN HENRY STEIDL, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 JEANNIE VERA STEINER, Bachelor of Arts (Home Economics)  
 WILLIAM THEODORE STEPHENS, Bachelor of Science (Electrical Engineering)<sup>3</sup>  
 MARIE FELICIA STEVENS, Bachelor of Arts (Home Economics)  
 ROGER GREENLEAF STEVENS, Bachelor of Science (Chemical Engineering)  
 WILLIAM ELLIS STEWART, Bachelor of Science (Commerce)  
 OSTIN ANGUS STICE, Bachelor of Science (Agriculture)<sup>2</sup>  
 HOWARD WILLIS STINSON, Bachelor of Science (Education)  
 GLADYS MAY STOPIE, Bachelor of Arts (Home Economics)  
 EARL BERTRAM STOVER, Bachelor of Science (Railway Electrical Engineering)  
 FRED GUY STRAUVE, Bachelor of Science (Chemical Engineering)  
 CLARK HENRY STURM, Bachelor of Science (Electrical Engineering)  
 DOROTHY STYLES, Bachelor of Arts (Home Economics)  
 JAMES LEVI SUMMITT, Bachelor of Science (Liberal Arts)<sup>2</sup>  
 LELAND GOODRICH SUTHERLAND, Bachelor of Science (Commerce)  
 LUCILE SUTTON, Bachelor of Arts (Liberal Arts)  
 NORA SUTTON, Bachelor of Arts (Liberal Arts)  
 CARL ERNEST SWANSON, Bachelor of Science (Architectural Engineering)  
 RAY LESLIE SWEIGERT, Bachelor of Science (Mechanical Engineering)  
 ROULIN LELAND SWINDLER, Bachelor of Science (Agriculture)<sup>2</sup>  
 CHARLES CAMERON TAPSCOTT, Bachelor of Arts (Liberal Arts)  
 HORTON MILLS TAULPREE, Bachelor of Science (Education)  
 CHELMER CLINE TAYLOR, Bachelor of Arts (Liberal Arts)  
 PAUL CANADAY TAYLOR, Bachelor of Science (Commerce)  
 ROSE WALLACE TAYLOR, Bachelor of Arts (Liberal Arts)  
 ALFRED CLARENCE THOMAS, Bachelor of Arts (Liberal Arts)  
 HAROLD DEWEY THOMAS, Bachelor of Science (Agriculture)  
 JOHN THERON THOMAS, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 HELEN MARIAN THOMPSON, Bachelor of Arts (Liberal Arts)  
 ALFRED CHINO THOM, Bachelor of Science (Agriculture)  
 WILLIAM WALLIS THORPE, Bachelor of Science (Commerce)  
 ARTHUR ALFRED THORSELL, Bachelor of Science (Mechanical Engineering)  
 FANNY EUSTEN THOMY, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 HENRY CLUMMER THORNTON, Bachelor of Science (Agriculture)  
 CARL RALPH THORNTON, Bachelor of Science (Chemical Engineering)  
 DANIEL TOLD, Bachelor of Arts (Liberal Arts)  
 LEO TOLD, Bachelor of Arts (Home Economics)<sup>1</sup>  
 ANN KATHLEEN TOLD, Bachelor of Science (Home Economics)  
 CARLETON MYRON TOWER, Bachelor of Arts (Commerce)  
 MARSHALL BERTHICK TOWLE, Bachelor of Arts (Home Economics)  
 PAUL HUBERT TRACY, Bachelor of Science (Agriculture)  
 LAMMA CORNELIA TROWBRIDGE, Bachelor of Arts (Liberal Arts)  
 W. HENRY TUNG, Bachelor of Science (Mechanical Engineering)  
 HERMAN LOUIS TSCHENTKE, Bachelor of Science (Science)<sup>4</sup>  
 FREDERICK TUCKER, Bachelor of Science (Chemical Engineering)  
 PERCY ALGER TYNGQUIST, Bachelor of Science (Home Economics)  
 DOMENIC TULLIS, Bachelor of Science (Ceramic Engineering)  
 FREDERICK TULER, Bachelor of Arts (Liberal Arts)  
 JULIA EDNA UEBEREN, Bachelor of Arts (Home Economics)<sup>1</sup>  
 HENRY CLAY VANDEKER, Bachelor of Arts (Liberal Arts)  
 TERRY VAN DERWEGEN, Bachelor of Science (Agriculture)

<sup>1</sup>Degree conferred November 19, 1920.<sup>2</sup>Degree conferred March 9, 1920.<sup>3</sup>Degree conferred August 14, 1920.<sup>4</sup>With thesis.

FRED NATHAN VAUGHAN, JR., Bachelor of Science (Agriculture)  
 RUFUS EMERSON VAUGHAN, Bachelor of Science (Agriculture)  
 FRANK WALTER VOGT, Bachelor of Science (Civil Engineering)  
 FLOYD WILLIAM GEORGE VON OHLEN, Bachelor of Science (Agriculture)<sup>1</sup>  
 EVANGELINE MAE VOORHEES, Bachelor of Science (Commerce)  
 GLENN GEORGE WADDINGTON, Bachelor of Science (Mechanical Engineering)  
 MAURICE POLLARD WAGER, Bachelor of Science (Mechanical Engineering)  
 JOHN HARDENBERGH WALDO, Bachelor of Science (Science)<sup>2</sup>  
 PEARL WHITE WALKER, Bachelor of Arts (Liberal Arts)  
 STANLEY TIFFIN WALLAGE, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 STANLEY TIFFIN WALLAGE, Bachelor of Science (Mining Engineering)  
 WILLIAM WALTER WALLER, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 CHARLOTTE BALDWIN WARD, Bachelor of Arts (Liberal Arts)  
 JUSTUS CONRAD WARD, Bachelor of Science (Science)<sup>2</sup>  
 NELLIE PEARL WARREN, Bachelor of Arts (Liberal Arts)  
 MALCOLM HAMILTON WATSON, Bachelor of Science (Agriculture)  
 RAYMOND VANCE WATSON, Bachelor of Science (Agriculture)  
 MARGARET LOUISE WATT, Bachelor of Arts (Liberal Arts)  
 AMOS HOLSTON WATTS, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 BRENT GIRDLER WEBB, Bachelor of Science (Architecture)  
 GEORGE STANLEY WEBB, Bachelor of Science (Railway Electrical Engineering)  
 AARON BURTON WEINER, Bachelor of Science (Mechanical Engineering)<sup>3</sup>  
 CHARLOTTE BRUCE WELCH, Bachelor of Arts (Liberal Arts)  
 HAROLD WILLIAM WESTBROOK, Bachelor of Arts (Commerce)  
 RICHARD WILBERT WESTERMANN, Bachelor of Science (Chemical Engineering)  
 NORMAN ELMER WESTFIELD, Bachelor of Science (Agriculture)  
 EARLE NATHANIEL WHELOCK, Bachelor of Science (Agriculture)  
 EARL LEONARD WHITE, Bachelor of Science (Commerce)  
 GEORGE BRUINGTON WHITMAN, Bachelor of Science (Agriculture)  
 HAROLD BRUCE WHITNEY, Bachelor of Science (Civil Engineering)  
 DOROTHY MAE WIERSEMA, Bachelor of Science (Education)  
 NEWELL EVERETT WILDEMAN, Bachelor of Science (Architecture)  
 JOE HENRY WILDERMUTH, Bachelor of Science (Architecture)  
 BESSE LOIS WILEY, Bachelor of Arts (Liberal Arts)  
 HARRY ARTHUR WILK, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 CECIL HERBERT WILKINSON, Bachelor of Science (Agriculture)  
 SCOTT JACKSON WILKINSON, Bachelor of Arts (Liberal Arts)  
 GILBERT STEWART WILLEY, Bachelor of Science (Agriculture)  
 PAUL ALBERT WILLIAMS, Bachelor of Science (Commerce)  
 GAIL JENNINGS WILSON, Bachelor of Science (Commerce)  
 HARRY WILSON, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 KENNETH LEON WILSON, Bachelor of Science (Agriculture)  
 LYLE AVERY WILSON, Bachelor of Science (Civil Engineering)  
 RAY WALKER WILSON, Bachelor of Arts (Commerce)<sup>1</sup>  
 STEVEN ASKEW WILSON, Bachelor of Arts (Liberal Arts)  
 BESSIE FRANCES WINCHESTER, Bachelor of Arts (Home Economics)  
 ELEANOR LUCILLE WISE, Bachelor of Arts (Home Economics)  
 JOSEF EDWARD WITTERS, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 MARION LOIS WOLEBEN, Bachelor of Arts (Liberal Arts)  
 THOMAS TSZE CHUNG WOO, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 PAUL MERRYLEES WOODWORTH, Bachelor of Science (Agriculture)  
 LAURA BELLE WORDEN, Bachelor of Arts (Home Economics)  
 BERTRAM ALFRED WREDE, Bachelor of Science (Civil Engineering)<sup>1</sup>  
 DONALD TOWNSEND WRIGHT, Bachelor of Science (Liberal Arts)<sup>2</sup>  
 HOWARD LEROY WRIGHT, Bachelor of Science (Electrical Engineering)  
 FREDERICK DEWEY WROBKE, Bachelor of Science (Commerce)<sup>3</sup>  
 ADOLPH KIRSCH WUERKER, Bachelor of Arts (Commerce)<sup>1</sup>  
 CORDELIA OLIVE YACKEY, Bachelor of Arts (Home Economics)  
 HOWARD ALLEN YOST, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 JOHN WESLEY ZIEGLER, Bachelor of Science (Chemical Engineering)  
 HARRY GUSTAV ZIMMERMAN, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 BENJAMIN SELMAN ZUCKERMAN, Bachelor of Science (Architectural Engineering)

## THE COLLEGE OF LAW

### The Degree of Bachelor of Law

ARTHUR LAYTON BARTON  
 WALTER WELLINGTON DONLEY  
 BURL ALBERT EDIE  
 CLARENCE WASHBURN GLOVER  
 EPLER CADWELL MILLS

MERLE EMMETT NOBLE  
 ARTHUR FREDERICK RACKERY  
 EDWARD ADOLF SANDLER  
 DAVID ARTHUR WARFORD  
 ROLAND EARL WINKLEMAN

### The Degree of Doctor of Law

JOHN HAROLD ARMSTRONG, A.B., 1917  
 EDWIN LINN COVEY, A.B., 1917

CHARLES CAREY CURTIS, A.B., A.M.,<sup>1</sup>

<sup>1</sup>Degree conferred March 9, 1920.

<sup>2</sup>With thesis.

<sup>3</sup>Degree conferred November 19, 1920.

<sup>4</sup>Degree conferred August 14, 1920.

## THE LIBRARY SCHOOL

## The Degree of Bachelor of Library Science

MARY ISABELLE BROKAW, A.B. (*Olivet College*) 1912  
 RUDOLPH HJALMAR GJELSNES, A.B. (*University of North Dakota*) 1916<sup>1</sup>  
 ANITA MILLER HOSTETTER, A.B. (*University of Kansas*) 1917  
 AMELIA KRIEG, A.B., 1917  
 CLEO LICHTENBERGER, B.S. (*James Millikin University*) 1911  
 KATHERINE LESLIE MCGRAW, A.B., 1914

MAUD KATHARINE MCLAUGHLIN, A.M., 1917  
 MARY MORRISON, A.M. (*University of Washington*) 1906  
 GRACE MILDRED MURRAY, A.B., 1917  
 ESTHER PIERSON, A.B. (*Ottawa University*) 1917  
 HOWARD BRIGHAM SOHN, A.B. (*Oberlin College*) 1908  
 MARY LUCILE WARNOCK, A.B. (*Monmouth College*) 1913

## THE COLLEGE OF MEDICINE

## The Degree of Bachelor of Science

(Conferred in Chicago)

BAYARD MELVIN BAILEY  
 CARL ALFONS BACON  
 SIMEON LEO BERMAN  
 COLEMAN ALEX BLOCK  
 ARTHUR REUBEN BLOOM  
 WILLIAM LANE BUHRMAN  
 LEONARD LOUIS CHARPIER  
 GEORGE EDWARD CLARKE<sup>1</sup>  
 PEDRO JOAQUIN DONA  
 GLEN WESLEY DOOLEN  
 PERSIA FRANCES ELFELD  
 LOUIS EDDIN  
 DONALD EUGENE FAXON  
 MAX JULIAN GOLDENSON  
 CLARENCE ORVILLE HUGHES  
 LOUIS IYERSON, M.D.  
 INGVALD JOHAN JENSEN  
 JOSEPH ELI LAIBE  
 GEORGE SHAYNIN LIVINGSTON  
 SAUL HYMAN MAIZUS  
 ROBERT MEYER MANDEL  
 HAROLD IRVING MEYER

JOHN KELLY MOEUR  
 WILLIAM HENRY MYERS  
 HERMAN JOSHUA PILKA  
 GUY VICTOR PONTIUS  
 ALBERT LE ROY POTTS  
 EUSAY PRILLA  
 BENJAMIN RAPPAPOORT  
 OTTO ANDREW REINHARD  
 TOBIAS RESNIK  
 THEODORE AUGUST ROST  
 HENRY HARRY RUBIN  
 JAMES HIRST RUTLEDGE  
 ROBERT HENRY SCHROEDER  
 LEAH SINAI  
 HYMAN ISCHIA SPECTOR  
 SAMUEL TOLPIN  
 MANFRED PRESCOTT ULLMAN  
 WARD HUSTON VENTRESS  
 DAVID ARTHUR WELENSKY  
 WILLIAM YONKER  
 NATHAN SAUNDERS ZEITLIN  
 SOFRONIO COPON ZULAYBAR

## The Degree of Doctor of Medicine

(Conferred in Chicago)

ALLEN GEORGE ALBERT, B.S.<sup>1</sup>  
 AMBROSIO YSIDRO ANTONIO<sup>2</sup>  
 ANDREW SAMUEL ARNQUIST, B.S.<sup>1</sup>  
 REA ERNEST ASHLEY, B.S.<sup>1</sup>  
 LEWIS THOMAS BAXTER  
 EDGAR THERON BLAIR, B.S.<sup>1</sup>  
 ARTHUR REUBEN BOGUE, B.S.  
 ERNEST JULIUS BROSIUS, D.D.S., B.S.  
 LADISLAV V CAPEK, B.S.  
 WILLIAM MCKINLEY CARTER, A.B.  
 HOWARD WILLIAM CHAMPLIN, A.B., B.S.  
 GEORGE EDWARD CLARKE<sup>1</sup>  
 GERALD MORRIS CLINE, B.S.<sup>1</sup>  
 CARL COHEN, B.S.<sup>1</sup>  
 MAURICE HIAM COTTLE, B.S.  
 JOHN WILLIAM CRADDOCK, B.S.<sup>1</sup>  
 WOODRUFF LYNDEN CRAWFORD, B.S.<sup>1</sup>  
 CHARLES MARSHALL DAVISON, B.S.<sup>1</sup>  
 HAROLD FRANCIS DILLER, B.S.<sup>1</sup>  
 EDWARD VINCENT FRANCIS DONOVAN, A.B., B.S.  
 LAWRENCE FRANCIS DRAPER, B.S.<sup>1</sup>  
 MAX EHRLICH, B.S.<sup>1</sup>  
 GEORGE ELVIDGE<sup>1</sup>  
 MAX ELIHU ENGERMAN, B.S.  
 WALTER RATHFON FISHER, B.S.<sup>1</sup>  
 HANBY LEWIS FORD, B.S.<sup>1</sup>  
 RAY CLARK FREARK, B.S.  
 CARSON KING GABRIEL, B.S.<sup>1</sup>  
 GERALD DELAND GERSON, B.S.<sup>1</sup>

LOUIS GOLDBLATT, B.S.  
 EDWARD PHILIP GRAMER, B.S.  
 RAY ELLSWORTH GREENWOOD, B.S.<sup>1</sup>  
 ETHEL ANNA GWIN, B.S.  
 HENRY FREDERICK HELLER, B.S.  
 EMRY G HYATT, B.S.<sup>1</sup>  
 GEORGE BURGESS IRVINE, B.S.<sup>1</sup>  
 JOHN WALTER JOHNSON, B.S.  
 KARL KOHN KAISER, B.S.<sup>1</sup>  
 SOPHIA ADELINE KNAUER, B.S.  
 GEORGE BUCHANAN KRYDER, B.S.<sup>1</sup>  
 EVERETT RAYMOND LAMBERTON, B.S.<sup>1</sup>  
 JOSEPH LA ROCCA, B.S.  
 RUTH LEONARD, A.B., B.S.  
 HAROLD JACKSON MCCOY<sup>1</sup>  
 ANDREW ROSS MCCRADIE  
 ROBERT DRINNAN MCCRADIE, A.B.<sup>1</sup>  
 THOMAS BYRD MAGATH, Ph.D.<sup>1</sup>  
 GEORGE STANLEY METCALF, B.S.<sup>1</sup>  
 CHARLES LEO MERRILL, B.S.  
 MYRON HERBERT MILLER, B.S.  
 SAMUEL ALFRED MURPHY, B.S.  
 SAMUEL NARODITSKY, B.S.  
 WILLIAM JAMES NOONAN, B.S.<sup>1</sup>  
 HEROLD BERNARD NORVIEL, B.S.<sup>1</sup>  
 MILTON MARQUETTE OCHS  
 HENRY EARLE OLIVER  
 ALBERT ERIC OLSON, B.S.<sup>1</sup>  
 DAVID ELMER OSTLER, B.S.<sup>1</sup>

<sup>1</sup>Degree conferred March 9, 1920.<sup>2</sup>Degree conferred November 19, 1920

JAMES WILLIAM PARKER, JR., B.S.  
HARRY ARTHUR PASKIND, B.S.  
NORBERT PAULKE, B.S.  
ANDREW PETRASS, B.S.  
FREDERICK LEO PICKOFF, B.S.  
THOMAS THAYER RACKLIFFE, B.S.  
FRANKLIN LE ROY RUBRIGHT, B.S.  
ARMOND J RUPPENTHAL, B.S.<sup>1</sup>  
HERBERT JULIUS SCHMIDT  
RAYMOND SHYROCK SHURTLEFF, B.S.  
MARY GERTRUDE SLAUGHTER, B.S.  
JOSEPH SPONDER, B.S.<sup>1</sup>  
JOSEPH BONSALE STEVENS, A.B.<sup>1</sup>  
THEODORE THADDEUS STONE, B.S.<sup>1</sup>

WILLIAM BENJAMIN STROMBERG, B.S.<sup>1</sup>  
HERBERT MILTON THARP<sup>2</sup>  
FRED RUSH THOMPSON, B.S.<sup>1</sup>  
ROBERT ALLYN WALKER, B.S., A.B.<sup>1</sup>  
LAMBERTUS WARMOLTS, B.S., A.B.  
PETER JOSEPH WERNER, B.S.  
CYRUS LANYON WHITE, B.S.<sup>1</sup>  
VERNON HOMER WILBURN, B.S.  
CLARENCE LEON WILSON, B.S.  
FRANK MAX WITTELE, B.S.<sup>1</sup>  
GEORGE HENRY WOODRUFF, B.S.  
RALPH A WOODS, B.S.<sup>1</sup>  
WILLIAM EDSON WRIGHT, B.S.

## THE COLLEGE OF DENTISTRY

### The Degree of Doctor of Dental Surgery

(Conferred in Chicago)

LEWIS BERNARD CASSUTT<sup>2</sup>  
SALVATOR PETER DI COSOLA  
LIONEL NATHAN DRUES  
WILLIAM EARLE ENTRIKEN<sup>2</sup>  
EMILY HOUDA KAYLA  
SHOZO KURACHI, D.D.S.  
AAGE MAITS

ERNEST MALTER  
NOBUKAZI SAITO<sup>2</sup>  
DIDRIK SANNE  
LOUIS WILLIAM SCHULTZ  
HARVEY STALLARD, Ph.D.  
CLARENCE TOLINE  
OSCAR BRADFORD YEATMAN

## THE SCHOOL OF PHARMACY

### The Degree of Pharmaceutical Chemist

(Conferred in Chicago)

FREDERICK EVENSON BOEM

### The Degree of Graduate in Pharmacy

(Conferred in Chicago)

MAN EHREGOTT AHNERT  
LEWIS P BROCKHOFF (Class of 1918)  
W EDWIN BROWN  
HENRY ADAM BUERKLE  
ETHEL M CARLSON (Class of 1918)  
MARIETTA LUCILLE CAROTHERS  
ROLLIN LELAND CATE  
BEULAH KLEIN CHAPMAN (Class of 1917)  
BYRON EUGENE CLAY (Class of 1915)  
VIRGIL GEORGE CONNOLLEY  
JOHN BENJAMIN COOKE  
RALPH DAVID DAVIDSON  
JOSEPHINE M DYNIEWICZ (Class of 1917)  
IRA ISADORE EISENBERG  
ERIC JOHN ERICKSON  
ARNO W FRITSCHER (Class of 1918)  
FRIEDERICH WILLIAM GROSSE  
SEWARD HAISE GUNTER  
WARREN FRANK HARRIS  
EDWARD CHARLES HIGGINS  
CLARENCE EDWARD HOLSTON  
ALLAN HUMPHREY  
HARLAN LEO JENKINS  
HARRY JESSE JENSEN  
ALFRED RICHARD JOHNSON (Class of 1918)  
HARRY KANTA (Class of 1915)  
LOUIS KAREL  
NATHAN SAM KARTMAN (Class of 1919)  
WALTER GEORGE KOEHLER

EVERET A LEWMAN (Class of 1913)  
BAXTER ELIJAH LIGHTFOOT  
STANLEY EDWARD MCBRIDE  
EBNER MCGINLEY (Class of 1905)  
ELMER WILLIAM MCLAUGHLIN  
WILFRED I MENARD (Class of 1918)  
FAYETTE OSCAR MERRILL  
STANLEY JOSEPH NOVOTNY  
RICHARD NEIL OLIVER  
HANS CHARLES PAHL  
CLYDE M PATE  
PAUL H POHLMAN (Class of 1917)  
HAROLD C PRUTSMAN (Class of 1917)  
LEON ARTHUR RAMBO  
ROSE SCHEELE RUDER (Class of 1917)  
SIDNEY SCHMIDT  
CYRENUS LEE SICKMAN  
WILLIAM LEVI SIDES  
ROBERT C SMITH (Class of 1899)  
RALPH E TERRY  
NINETTA A VELLA  
ALBERT FRANK VONDRASEK  
LEWIS WILLIAM WAXMAN  
RALPH WILLIAM WINDMUELLER  
CHARLES RODGER WILSON  
JAMES HARRISON DIGGS (Class of 1919)  
RALPH ELDRIDGE FRASER (Class of 1919)  
IRA GOLDMAN (Class of 1919)

## THE GRADUATE SCHOOL

### The Degree of Master of Architecture

DONALD MAHANAY ALLISON, A.B. (*Carnegie Institute*) 1911

### The Degree of Master of Arts

*In Botany*

HELEN ANASTASIA MCGINNIS, A.B., 1918  
LEO ROY TEHON, A.B. (*University of Wyoming*) 1916

<sup>1</sup>Degree conferred March 9, 1920.

<sup>2</sup>Degree conferred November 19, 1920.

*In Chemistry*

- LUCIE EMMA ROOT, A.B. (*Oberlin College*) 1917  
 RUSSELL IVAN SOMERS, A.B., 1919  
 FLOYD KINYON THAYER, A.B. (*University of Denver*) 1918

*In Classics*

- ABBY LINSLEY GREGORY, A.B. (*Rockford College*) 1919  
 ANGIE ALETA SMITH, A.B. (*Eureka College*) 1919

*In Economics*

- HELENE ELEANORE DOTY, A.B., 1918  
 AUGUSTA EMILIE GALSTER, A.B., 1918<sup>1</sup>  
 CARLTON MONTA HOGAN, A.B., 1918<sup>2</sup>  
 WILLIAM KING, A.B., 1919  
 ELMORE PETERSON, A.B., B. Com., (*University of South Dakota*) 1911

*In Education*

- MILTON MONROE MAYNARD, A.B. (*University of Oklahoma*) 1908<sup>2</sup>  
 CLARENCE ESHER ERFFMEYER, A.B. (*Northwestern College*) 1918  
 ELIZABETH PURSEL HACKLEY, A.B., 1917<sup>2</sup>

*In English*

- CHESTER REED ANDERSON, A.B., (*Heading College*) 1918  
 MABEL BOWMAN, A.B., 1917<sup>3</sup>  
 JOSEPH BUNN HEIDLER, A.B., 1918  
 OLGA VERA HOFACKER, A.B., 1911<sup>3</sup>  
 WILLIAM BRISTOW JONES, A.B. (*Georgetown College*) 1905; Litt.D. (*Columbia College*) 1917  
 PAULUS JOHN HERMAN LANGE, A.B., (*Augustana College*) 1918<sup>3</sup>  
 BEULAH WISE PRANTE, A.B., 1919  
 ARTHUR WELLESLEY SECORD, A.B. (*Greenville College*) 1916  
 MATTIE FRANCES SIMMONDS, A.B. (*Illinois Wesleyan University*) 1919  
 RUTH OLIVIA STOMMEL, A.B. (*Lake Forest College*) 1919  
 MARY WHITESIDE, A.B. (*Illinois Woman's College*) 1919

*In Entomology*

- THEODORE HENRY FRISON, A.B., 1918<sup>1</sup>

*In History*

- LUCY HAMNER BOOTH, A.B. (*Mount Holyoke College*) 1919  
 CHARLES FAIRMAN, A.B., 1918<sup>2</sup>  
 JAMES LEVI FITZPATRICK, A.B., (*Augustana College*) 1919  
 CORNELIA MCBURNEY FRENCH, A.B. (*Morningside College*) 1917  
 WILLIAM WALTER KITNER, A.B. (*Illinois College*) 1917  
 HAROLD ALPHA NEFF, A.B., 1918

*In Mathematics*

- RALPH CRAIG HUFFER, A.B. (*Albion College*) 1918  
 MARGARET WALKER, A.B., 1919

*In Physics*

- DUANE CAMPBELL COLMEY, A.B., 1918  
 LLOYD BLINN HAM, A.B. (*Bates College*) 1914  
 CLAUDE JEROME LAPP, A.B. (*Albion College*) 1917  
 ELMER NELS TURNQUIST, A.B., 1918

*In Political Science*

- KOK MAN CHENG, A.B. (*Soochow University*) 1917  
 DENNA FRANK FLEMING, A.B., 1916  
 LLOYD MILTON SHORT, A.B., (*Knox College*) 1919

*In Psychology*

- ANNETTE BARON, A.B. (*Illinois Wesleyan University*) 1919  
 LESTER COURTNEY RAINES, A.B., 1918<sup>3</sup>

*In Romance Languages*

- MILDRED DIMMICK, A.B. (*Ohio Wesleyan University*) 1912  
 GERTRUDE DELE GAGER, A.B. (*Western Reserve University*) 1913  
 AIMEE LEFFINGWELL MCKENZIE, A.B. (*Bryn Mawr College*) 1897  
 MARY EDNA SHELLEY, A.B. (*Butler College*) 1919  
 WALTER HENRY STORER, A.B., 1919

*In Zoology*

- DUNCAN CHARTERIS HETHERINGTON, A.B. (*Colorado College*) 1919  
 NELLIE YOUNG, A.B., 1919

## The Degree of Master of Science

*In Agronomy*

- HARRISON FREDERICK THEODORE FAHRNKOPF, B.S., 1913<sup>1</sup>

*In Animal Husbandry*

- WALTER GEORGE BAYSINGER, B.S., 1919  
 CHARLES CLARENCE FLANERY, B.S. (*University of Tennessee*) 1915  
 JOHN BENJAMIN RICE, B.S. (*University of Nebraska*) 1915  
 ANTON ERIC ROMYN, B.S. (*University of Toronto*) 1916

<sup>1</sup>Degree conferred March 9, 1920.

<sup>2</sup>Degree conferred August 14, 1920.

<sup>3</sup>Degree conferred November 19, 1920.



*In Bacteriology*

- MIRIAM WOOD DOUGHERTY, B.S. (*Monmouth College*) 1916  
RUTH SCOVELL FUNK, B.S., 1917

*In Botany*

- AARON RAYMOND KIENHOLZ, B.S. (*North-Western College*) 1917  
WILLIAM PERCIVAL SNYDER, B.S. (*Purdue University*) 1916  
ALFRED CHARLES VOGELE, B.S., 1918

*In Ceramic Chemistry*

- TSENG KWAI CHOW, B.S. (*Peking Government University*) 1918  
GEORGE EDWARD SLADEK, B.S., 1917

*In Chemistry*

- ELMER WADE ADAMS, B.S., 1919<sup>1</sup>  
DORTHIA BESSIE BAILEY, A.B. (*Oberlin College*) 1918  
DORIS VON EISEN BOCKIUS, B.S. (*Rockford College*) 1917  
BRUCE KEITH BROWN, B.S., 1918<sup>2</sup>  
HOWARD MARION CHILES, B.S., 1917  
ADAM ARTHUR CHRISTMAN, B.S. (*Ginnell College*) 1917  
BERTRAM FEURER, B.S., 1919<sup>2</sup>  
PAUL MEADE GINNINGS, B.S., 1919  
PAUL CURTIS GWINN, A.B. (*Indiana State Normal College*) 1917  
EDWARD TILLSON HOWELL, B.S., 1919  
JOHN RAVEN JOHNSON, B.S., 1919  
OLIVE BEATRICE JOHNSON, B.S. (*Rockford College*) 1919<sup>1</sup>  
WALTER RAYMOND KIRNER, B.S., 1918  
CHET RAM KOHLI, A.B. (*Cornell University*) 1919  
EARL EMANUEL LIBMAN, B.S., 1916<sup>2</sup>  
FRANK HAROLD MCCOMBS, B.S. (*Wooster College*) 1916  
FRED ROGERS MCCRUMB, B.S. (*Westminster College*) 1917  
ALBERT OTTO MATTHEWS, A.B., 1918<sup>1</sup>  
RUSSELL WARD MILLAR, B.S., 1916  
CHARLES SHATTUCK PALMER, B.S., 1917  
JOHN BARTLETT SEGUR, B.S., 1919<sup>1</sup>  
OWEN VERNON SHAFFER, B.S. (*Westminster College*) 1915  
GEORGE REED SHELTON, A.B. (*Cornell University*) 1912  
ESTHER WAGNER STEARN, A.B., 1918<sup>3</sup>  
GENEVIEVE STEARNS, B.S. (*Carleton College*) 1912<sup>2</sup>  
NORRIS ONSLOW TAYLOR, B.S., 1918  
ADOLPH FRIEDERICH THAL, B.S., 1919  
WILLIAM PHILIP UDINSKI, B.S., 1918<sup>2</sup>  
WILLIAM COURTNEY WILSON, B.S. (*Westminster College*) 1917  
LYMAN JOY WOOD, B.S. (*Ottarbein College*) 1919

*In Civil Engineering*

- SAMUEL RUSSELL OFFUTT, B.S. (*Colorado College*) 1918  
CHAUNCEY BROCKWAY SCHMELTZER, B.S., 1919

*In Dairy Husbandry*

- FOSTER FLOYD ELLIOTT, B.S. (*University of Kentucky*) 1919  
SAICHI OKIMOTO (*graduate Tohoku Imperial University*) 1916

*In Education*

- CARL COLVIN, B.S., 1912  
WILLIAM HORACE RAYNER, B.S., 1903, C.E., 1913  
MARTHA JANE WASSON, B.S. (*Knox College*) 1930

*In Electrical Engineering*

- WILLIAM RIGA LYON, B.S. (*Worcester Polytechnic Institute*) 1917<sup>2</sup>

*In Home Economics*

- DEENA AGNES SLOAN, A.B., 1919  
MADELINE REBINA SLOAN, B.S., 1919

*In Horticulture*

- CECIL FREDERICK PARTERSON, B.S. (*Ontario Agricultural College*) 1918<sup>1</sup>  
HOWARD RUSSEL STANFORD, B.S., 1908<sup>2</sup>  
HAROLD BRADFORD TUKEY, B.S., 1913

*In Mathematics*

- BERNHARD PAUL REINSCH, A.B., 1918<sup>2</sup>

*In Medicine*

- WALTER JOHN RICHARD HEINEKAMP, B.S., 1919<sup>1</sup>  
ADOLPH KRAFT, B.S., 1919<sup>1</sup>  
CLARENCE CHARLES SAELOHOF, B.S., 1919<sup>1</sup>

<sup>1</sup>Degree conferred August 14, 1920.

<sup>2</sup>Degree conferred March 9, 1920.

<sup>3</sup>Degree conferred November 19, 1920.

*In Physics*

- RALPH DOUGLAS DONER, B.S. (*University of Chicago*) 1917  
 EDWIN COULTHARD FRITTS, B.S. (*Georgetown College*) 1917  
 ROY ANDREW NELSON, B.S. (*Knox College*) 1916

*In Theoretical and Applied Mechanics*

- WILLIAM LOUIS SCHWALBE, B.S. (*University of Wisconsin*) 1911

*In Zoology*

- ELLIS RUSSELL WEAVER, B.S. (*Knox College*) 1919

## Professional Degree in Engineering

*The Degree of Electrical Engineer*

- HUGH ALEXANDER BROWN, B.S., M.S., 1911, 1913  
 EDWIN LEWIS CONNELL, B.S., 1912  
 HERMAN CARL WOLF, B.S., M.S., 1913, 1914

*The Degree of Mechanical Engineer*

- OLLISON CRAIG, B.S., 1909

## The Degree of Doctor of Philosophy

*In Agronomy*

- JOSE JISON MIRALSOL, B.S., M.S. (*University of Philippines*) 1915, 1917

*In Botany*

- LEE ELLIS MILES, A.B. (*Wabash College*) 1914  
 MARY EMMA RENICH, A.B., A.M., 1911, 1912  
 EDWIN ROLLIN SPENCER, A.B., A.M., 1911, 1914  
 TRUMAN GEORGE YUNCKER, B.S. (*Michigan Agricultural College*) 1914; A.M. (*University of Nebraska*) 1915

*In Chemistry*

- MINER MANLEY AUSTIN, A.B. (*Lawrence College*) 1916; A.M., 1918  
 HERBERT EPHRAIM FRENCH, A.B. (*Morningside College*) 1915; A.M., 1917  
 RALPH WILLIAM HUFFERD, A.B. (*Washington University*) 1915; A.M., 1917  
 CARL SHIPP MARVEL, A.B. (*Illinois Wesleyan University*) 1915; A.M., 1916  
 RUTH EVELYN MERLING, B.S., M.S. (*University of Washington*) 1916, 1917  
 SARGENT GASTMAN POWELL, B.S., M.S. (*University of Washington*) 1916  
 LYNNE HERMAN ULICH, B.S. (*Grinnell College*) 1914; M.S., 1918  
 WILLIAM ALEXANDER VAN WINKLE, B.S. (*University of Michigan*) 1911; M.S., 1917

*In Classics*

- RODNEY POTTER ROBINSON, A.B., A.M. (*University of Missouri*) 1910, 1911

*In Education*

- JAMES HENRY GREENE, B.S., M.S., 1908, 1915  
 JOHN ANTHONY O'BRIEN, A.B., A.M. (*St. Viator College*) 1913, 1915

*In English*

- ROBERT BRUCE WEIRICK, A.B. (*Colorado College*) 1911; A.M. (*Harvard University*) 1913

*In Entomology*

- HACHIRO YUASA, B.S. (*Kansas State Agricultural College*) M.S., 1915, 1917

*In Geology*

- LUTHER EUGENE KENNEDY, A.B., A.M., 1915  
 CLARENCE SAMUEL ROSS, A.B., A.M., 1913, 1915

*In German*

- BERNHARD ALEXANDER UHLENDORF, A.B., A.M. (*Washington University*) 1915, 1916

*In History*

- LOUISE BURNHAM DUNBAR, A.B. (*Mount Holyoke College*) A.M., 1916; 1917

*In Mathematics*

- CHARLES FRANCIS GREEN, A.B., A.M. (*University of Kansas*) 1914, 1915  
 LEONARD LEO STEIMLEY, A.B., A.M. (*Indiana University*) 1912, 1913  
 ROSCOE WOODS, A.B. (*Georgetown College*) 1914; A.M. (*University of Maine*) 1916

*In Physics*

- CHARLES STEUER PAZEL, A.B. (*Fairmount College*) 1914; A.M., 1915<sup>1</sup>  
 WILLIAM HENRY HYSLOP, A.B. (*Knox College*) 1908; A.M., 1911

*In Physiology*

- ALMA JESSIE NEILL, A.B., 1913; A.M., 1915

*In Political Science*

- LARENCE ARTHUR BERDAHL, A.B. (*St. Olaf College*) 1914; A.M. (*University of South Dakota*) 1917

*In Psychology*

- OLEMAN ROBERTS GRIFFITH, A.B. (*Greenville College*) 1915

<sup>1</sup>Degree conferred November 19, 1920.

# SCHOLARS AND FELLOWS, 1920-1921

---

BEULAH MAY ARMSTRONG, Fellow in Mathematics  
 JAMES CURTIS AUSTIN, Fellow in Classics  
 VIRGINIA BARTOW, Scholar in Chemistry  
 ROGER MOORE BOND, Scholar in Chemistry  
 MARGARET MORRISON BRAYTON, Scholar in Classics  
 RACHEL AUGUSTA BREADTHWIT, Scholar in Romance Languages  
 LOUIS IGNATIUS BREDVOLD, Fellow in English  
 HELEN BROSHAR, Scholar in History  
 JOHN BERNIS BROWN, DuPont Fellow in Chemistry  
 GEORGE OSWALD BURR, Scholar in Chemistry  
 LOLA MERLE CREMEANS, Scholar in Home Economics  
 IRVING ALSON DENISON, Scholar in Agronomy  
 MAX SHAW DUNN, Fellow in Chemistry  
 MILDRED LEE ECKI, Scholar in Mathematics  
 THEODORE HENRY FRISON, Fellow in Entomology  
 WALTHER FREDERICK GOEBEL, Scholar in Chemistry  
 WILBUR GILFILLAN GUILD, Scholar in Mathematics  
 ADA ROBERTA HALL, Fellow in Zoology  
 BLANCHE MARIE HALL, Scholar in Mathematics  
 JOSEPH LOWE HALL, Fellow in Chemistry, U.S. Interdepartmental Social Hygiene Board  
 EZRA CLARENCE HARRAH, Fellow in Zoology  
 AMOS HENRY HERSH, Fellow in Zoology  
 DUNCAN CHARTERIS HETHERINGTON, Fellow in Zoology  
 ESTHER HETHERLIN, Scholar in English (*Nominee of Illinois Woman's College*)  
 GERTRUDE HOWELL HILDRETH, Scholar in Education (*Nominee of North-Western College*)  
 HAROLD EMORY HUNTER, Scholar in Mathematics (*Nominee of Hedding College*)  
 JOHN RAVEN JOHNSON, Fellow in Chemistry, U.S. Interdepartmental Social Hygiene Board  
 FLORENCE DOROTHEA JONES, Scholar in Education  
 JOHN HALVOR LEEK, Scholar in Political Science, (*Nominee of James Millikin University*)  
 VEDA FERN LEONARD, Scholar in Zoology  
 FLORENCE ELEANORE LESHIER, Scholar in English (*Nominee of Carthage College*)  
 DORA AILEEN LOUGEE, Scholar in Classics  
 CLARENCE GEORGE LOWE, Scholar in Classics  
 HAROLD ROSS McLARTY, Scholar in Botany  
 FLORENCE GERTRUDE MADDEN, Scholar in English  
 EARL JOYCE MILLER, Fellow in Economics  
 LOUIS NAVIAS, Fellow in Ceramic Chemistry  
 MILTON NELS NELSON, Fellow in Economics  
 CHARLES SHATTUCK PALMER, Fellow in Chemistry, U.S. Interdepartmental Social Hygiene Board  
 ADOLPH FREDERICK PAULI, Fellow in Classics  
 MARGARET LAURA POTTER, Fellow in Psychology  
 ARMAND JAMES QUICK, Fellow in Chemistry  
 FRED STANLEY RODKEY, Fellow in History  
 STACEY CORBIN SATTERFIELD, Scholar in English (*Nominee of Wheaton College*)  
 LAURA MAY SCHIRAMM, Scholar in History  
 NATHAN SCHREIBER, Scholar in Romance Languages  
 ARTHUR WELLESLEY SECORD, Fellow in English  
 LLOYD MILTON SHORT, Fellow in Political Science  
 RAYMOND JOHN SONTAG, Scholar in History  
 FENNER SATTERTHWAITE STICKNEY, Fellow in Entomology  
 WALTER HENRY STORER, Fellow in Romance Languages  
 MABEL CAROLINE SWICKARD, Scholar in Mathematics (*Nominee of Knox College*)  
 AGNES GRIEVE WALKER, Scholar in English  
 MARY MARCELLA WHETSLE, Scholar in English (*Nominee of Rockford College*)  
 MIRIAM ELAINE WILSON, Scholar in Romance Languages  
 LEONARD FRANCIS YNTEMA, Carr Fellow in Chemistry

# UNIVERSITY HONORS

Awarded by the Faculty of the University

## HONORS AT COMMENCEMENT

(June, 1920)

College of Liberal Arts and Sciences

### THE DEGREE OF A. B. WITH HONORS

ELIZABETH BAYLEY, in English  
RACHEL BREATHWIT, in Romance Languages  
HELEN BROSHAR, in History  
CHARLES BREWER DAVIS, in English  
VICTORIA FREDERICK, in History

FERYL FRANCES HICKMAN, in Botany  
MARY EDNA MCCAULL, in History  
MARGUERITA NEEDHAM, in English  
DORIS NAOMI SEWARD, in Botany  
HANS CHRISTIAN THORY, in Classics

### SPECIAL HONORS

College of Liberal Arts and Sciences

HENRY ERNEST BRAUER, in Chemical Engineering  
MARGARET JEANNETTE BUSEY, in Chemistry  
OSCAR ALLEN CHERRY, in Chemistry  
MORRIS EDWARD DREYFUS, in Chemical Engineering  
JAMES EDWARD HANSEN, in Chemistry  
JOHN WESLEY ZIEGLER, in Chemical Engineering

JOHN WILLIAM HARSCH, in Chemical Engineering  
VINCENT BRUSH MARQUIS, in Chemistry  
ROGER GREENLEAF STEVENS, in Chemical Engineering  
FRED GUY STRAUB, in Chemical Engineering

College of Agriculture

MARSHALL RAYMOND MALSBURY

### FINAL HONORS

College of Liberal Arts and Sciences

MORRIS EDWARD DREYFUS  
JACOB ALEN FARBER  
JULIUS HANDLER

VINCENT BRUSH MARQUIS  
CARL RALPH TIKOTSKY

College of Commerce and Business Administration

TRUSTUM HAROLD HULL  
ELSIE MARGARET McMAHON  
CAROLINE ELIZABETH MANSPEAKER

ELMER EDWARD MARX  
RUSSELL HOWARD MORRISON  
LELAND GOODRICH SUTHERLAND

College of Engineering

CLIVER FREDERICK BARKLAGE  
ELINOR THOMAS BLIN  
CURTIS LOVE BOARDMAN  
PETER JOHN BOESEN  
WILLIAM TRACEY COLWELL  
HARVEY CHARLES GROTH  
HARRY GEORGE HAAKE  
WALTER CHRIS HECKMAN  
ARTHUR MANDEL HEDA

MORRIS LOUIS KOROMSKY  
THEODORE KRUGER  
DAVID KRAUSE MALCOLMSON  
DAVID WARD PEASE  
GEORGE RICHARDSON POSTLE  
CLOYDE MOFFETT SMITH  
RAY LESLIE SWEIGERT  
WAI KWONG TSANG  
BRENT GIRDLER WEBB

College of Agriculture

ERIC BASS  
LESTER LINN CORRIE  
LEWIS ALSON DENISON  
LORENZO STEPHEN FOSTE  
DOROTHY CAROLINE FRAZIER  
FREDERICK SNYDER GIMRE  
MARSHALL RAYMOND MALSBURY  
GEORGE WILKINSON MOORE

WALTER RAYMOND MOORE  
GERTRUDE AUGUSTA RAHN  
EDMOND JEROME SHRUM  
HELEN VANINWEGEN  
MALCOLM HAMILTON WATSON  
GEORGE BRUNTING WHITMAN  
CECIL HERBERT WILKINSON

Library School

MARY ISABELLA BROKAW  
AMELIA KRIEG

ANITA MILLER HOSTETTER

School of Music

HELEN ORPHA ERNEST

College of Education

AUDREY DYKEMAN

PRIZES

American Institute of Architects Medal

BRENT GIRDLER WEBB

The Francis John Plym Prize for Architectural Engineers

*Not awarded*

The Scarab Competition in Architecture

DONALD EDGAR MARQUIS

The B'nai B'rith Prize

BERYL DAVID COHON

The Phi Beta Kappa Prize

WARNER GRENELLE RICE

The St. Patrick's Day Prize

*Not awarded*

The Bryan Prize

*Not awarded*

The Thacher Howland Guild Memorial Prize

OPAL JACKSON

*Honorable Mention*—WILLIAM BYRON MOWERY

Conference Medal for Excellence in Scholarship and Athletics for the Year 1920

JOHN BENJAMIN FELMLEY

Chi Omega Prize

HARRY ARTHUR WILK

Commissions as Brevet Captains in the National Guard of Illinois and as Lieutenants,  
Infantry Officers' Reserve Corps, U.S.A.

EARL JAMES SMILEY  
JOHN JOSEPH BICKEL, JR.

ELMER EDWARD MARK

University Gold Medal

JOHN EDWARD SOULE

Hazelton Gold Medal

JORDAN REESE MCNEIL

# SUMMARY OF DEGREES CONFERRED

1920

## *Degrees in the Graduate School*

	<i>Men</i>	<i>Women</i>	<i>Total</i>
A.M.....	20	18	38
A.M.—(March 9, 1920).....	1	1	2
A.M.—(August 14, 1920).....	5	1	6
A.M.—(November 19, 1920).....	3	2	5
M.S.....	39	7	46
M.S.—(March 9, 1920).....	9	1	10
M.S.—(August 14, 1920).....	6	1	7
M.S.—(November 19, 1920).....	..	1	1
M. Arch.....	1	..	1
E.E.....	3	..	3
M.E.....	1	..	1
Ph.D.....	25	4	29
Ph.D.—(November 19, 1920).....	1	..	1
<i>Total, Graduate School</i> .....	114	36	150

## *Degrees in Liberal Arts and Sciences*

A.B.—(with thesis).....	3	11	14
A.B.—(without thesis).....	54	120	174
A.B.—(March 9, 1920).....	12	7	19
A.B.—(August 14, 1920).....	5	12	17
A.B.—(November 19, 1920).....	11	2	13
A.B.—Home Economics.....	..	45	45
A.B.—Home Economics (March 9, 1920).....	..	3	3
A.B.—Home Economics (August 14, 1920).....	..	1	1
A.B.—Home Economics (November 19, 1920).....	..	5	5
B.S.—Liberal Arts.....	5	1	6
B.S.—Liberal Arts (with thesis).....	2	1	3
B.S.—General Course (March 9, 1920).....	1	..	1
B.S.—General Course (November 19, 1920).....	2	..	2
B.S.—Chemistry (with thesis).....	19	3	22
B.S.—Chemistry (March 9, 1920).....	3	..	3
B.S.—Chemistry (August 14, 1920).....	3	..	3
B.S.—Chemistry (November 19, 1920).....	2	..	2
B.S.—Chemical Engineering.....	30	..	30
B.S.—Chemical Engineering (March 9, 1920).....	1	..	1
B.S.—Home Economics.....	..	3	3
<i>Total, Liberal Arts and Sciences</i> .....	153	214	367

## *Degrees in Commerce and Business Administration*

A.B.....	7	..	7
A.B.—(March 9, 1920).....	6	..	6
B.S.....	90	9	99
B.S.—(March 9, 1920).....	4	..	4
B.S.—(August 14, 1920).....	5	1	6
B.S.—(November 19, 1920).....	4	..	4
<i>Total, Commerce and Business Administration</i> .....	116	10	126

## *Degrees in Engineering*

B.S.—Architecture.....	16	..	16
B.S.—Architecture (March 9, 1920).....	2	..	2
B.S.—Architecture (August 14, 1920).....	1	..	1
B.S.—Architectural Engineering.....	23	..	23
B.S.—Architectural Engineering (March 9, 1920).....	1	..	1
B.S.—Ceramic Engineering.....	5	..	5
B.S.—Ceramic Engineering (March 9, 1920).....	1	..	1

B.S.—Civil Engineering.....	33	..	33
B.S.—Civil Engineering (March 9, 1920).....	6	..	6
B.S.—Civil Engineering (August 14, 1920).....	1	..	1
B.S.—Electrical Engineering.....	28	..	28
B.S.—Electrical Engineering (March 9, 1920).....	2	..	2
B.S.—Electrical Engineering (August 14, 1920).....	1	..	1
B.S.—Electrical Engineering (November 19, 1920).....	1	..	1
B.S.—Mechanical Engineering.....	30	..	30
B.S.—Mechanical Engineering (March 9, 1920).....	1	..	1
B.S.—Mechanical Engineering (November 19, 1920).....	3	..	3
B.S.—Mining Engineering.....	4	..	4
B.S.—Mining Engineering (December 14, 1920).....	1	..	1
B.S.—Municipal and Sanitary Engineering.....	2	..	2
B.S.—Railway Civil Engineering.....	1	..	1
B.S.—Railway Electrical Engineering.....	6	..	6
<i>Total, Engineering</i> .....	169	..	169

*Degrees in Agriculture*

B.S.—(with thesis).....	5	..	5
B.S.—(without thesis).....	90	1	91
B.S.—(March 9, 1920).....	19	..	19
B.S.—(November 19, 1921).....	6	..	6
B.S.—Floriculture.....	2	..	2
B.S.—Landscape Gardening (with thesis).....	1	1	2
B.S.—Landscape Gardening.....	7	..	7
B.S.—Landscape Gardening (March 9, 1920).....	1	..	1
B.S.—Home Economics.....	..	17	17
B.S.—Home Economics (November 19, 1920).....	..	1	1
<i>Total, Agriculture</i> .....	131	20	151

*Degrees in Law*

LL.B.....	10	..	10
J.D.....	2	..	2
J.D.—(March 9, 1920).....	1	..	1
<i>Total, Law</i> .....	13	..	13

*Degrees in Library Science*

B.L.S.....	1	10	11
B.L.S.—(November 19, 1920).....	1	..	1
<i>Total, Library Science</i> .....	2	10	12

*Degrees in Music*

B.Mus.....	1	6	7
B.Mus.—(August 14, 1920).....	..	1	1
<i>Total, Music</i> .....	1	7	8

## TOTAL, COLLEGES AND SCHOOLS AT URBANA.....

704 304 1,006

*Degrees in Medicine*

B.S.....	40	3	43
M.D.....	37	4	41
M.D.—(March 9, 1920).....	42	..	42
M.D.—(November 19, 1920).....	2	..	2
<i>Total Medicine</i> .....	121	7	128

*Degrees in Dentistry*

D.D.S.....	10	1	11
D.D.S.—(November 19, 1920).....	3	..	3
<i>Total, Dentistry</i> .....	13	1	14

*Degrees in Pharmacy*

Ph.C.....	1	..	1
Ph.G.....	51	6	57
<i>Total, Pharmacy</i> .....	52	6	58

## TOTAL, COLLEGES AND SCHOOLS IN CHICAGO.....

187 14 201

GRAND TOTAL..... 890 318 1,208

# SUMMARY OF OFFICERS BY COLLEGES AND SCHOOLS

1920-1921

## OFFICERS OF INSTRUCTION

COLLEGES, SCHOOLS, AND DEPARTMENTS	PROFESSORS		ASSOCIATE PROFESSORS		ASSISTANT PROFESSORS		ASSOCIATES	
	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.
Liberal Arts and Sciences.....	49	..	12	..	34	..	10	1
Commerce and Business Admin- istration.....	6	..	1	..	5	..	1	..
Engineering.....	23	..	7	..	18	..	17	..
Agriculture.....	24	1	2	..	16	2	23	9
Music.....	1	..	..	..	2	..	..	..
Education.....	4	..	4	..	2	..	1	2
Law.....	4	..	..	..	1	..	..	..
Library.....	1	..	..	..	1	..	1	..
Military Science.....	1	..	1	..	8	..	4	..
Physical Education.....	1	1	..	..	1	..	5	1
Photography.....	..	..	..	..	..	..	..	..
<i>Totals at Urbana.....</i>	114	2	27	..	87	3	62	13
Medicine.....	21	..	17	1	26	..	23	..
Dentistry.....	11	..	3	..	8	..	6	..
Pharmacy.....	3	..	..	..	1	..	..	..
<i>Totals in Chicago.....</i>	35	..	20	1	35	..	29	..
<b>TOTALS IN UNIVERSITY.....</b>	149	2	47	1	122	3	91	13

## OFFICERS OF ADMINISTRATION

General.....

Library.....

## TOTAL, INSTRUCTIONAL AND ADMINISTRATIVE.....

*Deduct Duplicates:*

Instructional Officers holding Administrative Positions.....

Instructional Officers in Chicago holding more than one Position.....

## NET TOTAL IN UNIVERSITY.....



# SUMMARY OF OFFICERS BY COLLEGES AND SCHOOLS

1920-1921

SPECIAL LECTURERS		INSTRUCTORS		ASSISTANTS		GRADUATE ASSISTANTS		STUDENT ASSISTANTS		TOTALS		Total
Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	
..	..	24	14	83	46	26	5	7	2	245	68	313
..	..	8	3	12	..	..	..	..	..	33	3	36
..	..	23	..	15	..	5	..	3	1	111	1	112
1	..	8	3	11	6	..	..	..	..	86	20	106
..	..	4	7	..	..	..	..	..	..	7	7	14
2	..	3	..	2	1	..	..	1	..	19	3	22
..	..	2	..	..	..	..	..	..	..	7	..	7
..	1	1	2	..	..	..	..	..	..	3	4	7
..	..	..	..	4	..	..	..	33	..	51	..	51
..	..	3	5	1	1	..	..	..	2	11	10	21
..	..	1	..	..	..	..	..	..	..	1	..	1
3	1	77	34	128	54	31	5	44	5	574	116	690
3	..	35	1	33	5	..	..	..	..	158	7	165
2	..	15	2	12	4	..	..	8	..	65	6	71
..	..	2	..	2	1	..	..	..	..	8	1	9
5	..	52	3	46	10	..	..	8	..	231	14	245
8	1	129	37	175	64	31	5	52	5	805	130	935
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45	5	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	30	35
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	855	165	1,020
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	10	35
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	..	12
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	818	155	973

# SUMMARY OF STUDENTS

1920-1921

College and Course	Seniors			Juniors			Sophomores		
	Men	Wom.	Total	Men	Wom.	Total	Men	Wom.	Total
<b>LIBERAL ARTS AND SCIENCES</b>									
General.....	59	121	180	81	183	264	96	245	341
Journalism.....	7	9	16	17	13	30	20	25	45
Preparatory to Law.....	6	1	7	10	...	10	31	...	31
Economic Entomology.....	1	...	1	...	...	...	...	...	...
Preparatory to Medicine.....	4	...	4	8	1	9	51	...	51
Home Economics.....	...	38	38	...	46	46	...	60	60
Chemistry.....	19	4	23	30	3	33	29	4	33
Chemical Engineering.....	24	...	24	54	1	55	58	...	58
Total.....	120	173	293	200	247	447	285	334	619
<b>COMMERCE</b>									
General Business.....	100	9	109	163	13	176	299	28	327
Commercial and Civic Sec.....	1	2	3	...	2	2	...	3	3
Banking.....	11	2	13	15	2	17	8	...	8
Insurance.....	2	...	2	3	...	3	1	...	1
Accountancy.....	15	2	17	29	...	29	26	1	27
Railway Administration.....	6	1	7	2	...	2	3	...	3
Railway Transportation.....	1	...	1	1	...	1	...	...	...
Commercial Teachers.....	1	...	1	...	1	1	...	3	3
Foreign Commerce.....	5	...	5	14	1	15	16	1	17
Industrial Administration.....	27	...	27	35	...	35	53	...	53
Commerce and Law.....	2	...	2	3	...	3	11	...	11
Total.....	171	16	187	265	19	284	417	36	453
<b>EDUCATION</b>									
General.....	3	11	14	7	9	16	...	...	...
Athletic Coaching.....	4	...	4	7	...	7	21	...	21
Teacher Training (Smith-Hughes).....	...	...	...	...	...	...	...	...	...
Agriculture.....	3	...	3	2	...	2	...	...	...
Home Economics.....	...	1	1	...	4	4	...	...	...
Industrial.....	1	...	1	1	...	1	2	...	2
Total.....	11	12	23	17	13	30	23	...	23
<b>ENGINEERING</b>									
Architecture.....	18	1	19	14	...	14	24	4	28
Architectural.....	16	...	16	24	...	24	36	...	36
Ceramic.....	4	...	4	9	...	9	10	...	10
Civil.....	26	...	26	74	...	74	78	...	78
Electrical.....	40	...	40	74	...	74	113	...	113
Mechanical.....	41	...	41	84	1	85	123	...	123
Mining.....	8	...	8	9	...	9	18	...	18
Municipal and Sanitary.....	...	...	...	4	...	4	3	...	3
Railway Civil.....	1	...	1	3	...	3	1	...	1
Railway Electrical.....	5	...	5	3	...	3	6	...	6
Railway Mechanical.....	...	...	...	2	...	2	2	...	2
General Engineering Physics.....	...	...	...	1	...	1	2	...	2
Special Vocational.....	...	...	...	...	...	...	...	...	...
Total.....	159	1	160	301	1	302	416	4	420
<b>AGRICULTURE</b>									
General.....	117	3	120	127	5	132	239	3	242
Farm Organization and Management.....	7	...	7	6	...	6	7	...	7
Floriculture.....	6	1	7	4	1	5	3	...	3
Landscape Gardening.....	11	4	15	12	8	20	9	4	13
Home Economics.....	...	19	19	...	23	23	...	22	22
Teacher Training (Smith-Hughes).....	...	...	...	...	...	...	...	...	...
Agriculture.....	...	...	...	...	...	...	...	2	2
Home Economics.....	...	...	...	...	...	...	...	...	...
Special Vocational.....	...	...	...	...	...	...	...	...	...
Total.....	141	27	168	149	37	186	258	31	289
<b>MUSIC</b>									
3-year course.....	1	10	11	...	6	6	1	16	17
4-year course.....	...	...	...	...	...	...	...	...	...
Total.....	603	239	842	932	323	1255	1400	421	1821
<b>LAW</b>									
3-year course.....	...	...	...	10	...	10	24	2	26
4-year course.....	...	...	...	7	...	7	9	...	9
Total.....	...	...	...	17	...	17	33	2	35
<b>LIBRARY</b>									
3-year course.....	...	...	...	...	...	...	3	7	10
4-year course.....	...	...	...	...	...	...	...	...	...
Total.....	...	...	...	...	...	...	...	...	...
<b>TOTAL UNDERGRADUATE AND PROFESSIONAL STUDENTS AT URBANA</b>									
<b>GRADUATE SCHOOL</b>									
<i>Deduct Duplicates</i>									
<b>TOTAL AT URBANA, WINTER SESSION</b>									

# SUMMARY OF STUDENTS

1920-1921

Freshmen			Irregular <sup>1</sup>			Special			Soldier Special <sup>2</sup>	Vocational Special <sup>3</sup>	Totals		
Men	Wom.	Total	Men	Wom.	Total	Men	Wom.	Total			Men	Wom.	Total
198	473	671	3	5	8	20	44	64	...	...	457	1071	1528
27	26	53	...	...	...	4	1	5	...	...	75	74	149
52	...	52	...	...	...	1	...	1	...	...	100	1	101
...	...	...	...	...	...	...	...	...	...	...	1	...	1
91	3	94	...	...	...	4	...	4	1	...	159	4	163
...	73	73	...	...	...	...	4	4	...	...	...	221	221
48	1	49	...	...	...	1	...	1	...	...	127	12	139
94	1	95	...	...	...	1	...	1	...	...	231	2	233
510	577	1087	3	5	8	31	49	80	1	...	1150	1385	2535
608	75	683	1	...	1	20	5	25	3	...	1194	130	1324
...	5	5	...	...	...	...	...	...	...	...	1	12	13
23	...	23	...	...	...	...	...	...	...	...	57	4	61
8	...	8	...	...	...	...	...	...	...	...	14	...	14
47	5	52	1	1	2	2	...	2	...	...	120	9	129
6	...	6	...	...	...	...	...	...	...	...	17	1	18
3	...	3	...	...	...	...	...	...	...	...	5	...	5
...	2	2	...	...	...	...	...	...	...	...	1	6	7
22	1	23	...	...	...	...	...	...	1	...	58	3	61
59	...	59	...	...	...	2	...	2	1	...	177	...	177
16	...	16	...	...	...	...	...	...	...	...	32	...	32
792	88	880	2	1	3	24	5	29	5	...	1676	165	1841
...	...	...	...	...	...	2	2	4	...	...	12	22	34
45	...	45	1	...	1	4	...	4	...	...	82	...	82
...	...	...	...	...	...	1	...	1	...	...	6	...	6
...	...	...	...	...	...	...	1	1	...	...	...	6	6
4	1	5	...	...	...	...	...	...	...	...	8	1	9
49	1	50	1	...	1	7	3	10	...	...	108	29	137
50	2	52	1	...	1	6	...	6	1	...	114	7	121
63	...	63	...	...	...	1	...	1	...	...	140	...	140
18	...	18	...	...	...	1	...	1	...	...	42	...	42
130	...	130	...	...	...	3	...	3	2	...	313	...	313
208	...	208	...	...	...	7	...	7	1	...	443	...	443
210	1	211	...	...	...	11	...	11	2	...	471	2	473
29	...	29	...	...	...	2	...	2	...	...	66	...	66
5	...	5	...	...	...	1	...	1	...	...	13	...	13
7	...	7	...	...	...	2	...	2	...	...	14	...	14
7	...	7	...	...	...	...	...	...	...	...	21	...	21
7	...	7	...	...	...	...	...	...	...	...	11	...	11
1	...	1	...	...	...	...	...	...	...	...	4	...	4
...	...	...	...	...	...	...	...	...	...	1	1	...	1
735	3	738	1	...	1	34	...	34	6	1	1653	9	1662
287	6	293	2	1	3	43	2	45	6	...	821	20	841
8	2	10	...	...	...	1	...	1	...	...	29	2	31
3	...	3	...	...	...	1	...	1	...	...	17	2	19
16	5	21	...	1	...	2	...	2	...	...	50	22	72
...	52	52	...	2	2	...	6	6	...	...	...	124	124
...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1	1	...	...	...	...	...	...	...	...	...	3	3
...	3	3	...	...	...	...	...	...	...	...	...	3	3
...	...	...	...	...	...	...	...	...	...	42	42	...	42
314	69	383	2	4	6	47	8	55	6	42	959	176	1135
6	42	48	2	9	11	6	18	24	...	...	16	101	117
2406	780	3186	11	19	30	149	83	232	18	43	5562	1865	7427
First Year			...	...	...	15	1	16	...	...	96	4	100
47	1	48	...	...	...	...	...	...	...	...	27	1	28
11	1	12	...	...	...	...	...	...	...	...	123	5	128
58	2	60	...	...	...	15	1	16	...	...	8	22	30
4	14	18	...	...	...	1	1	2	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	5693	1892	7585
...	...	...	...	...	...	...	...	...	...	...	327	94	422
...	...	...	...	...	...	...	...	...	...	...	14	3	17
...	...	...	...	...	...	...	...	...	...	...	6006	1983	7989

SUMMER SESSION, 1920.....									
Undergraduates .....									
Graduates.....									
Total, Summer Session.....									
Deduct Duplicates <sup>1</sup> .....									
Net Total (Summer Session only).....									
TOTAL AT URBANA TO MARCH 8, 1921.....									
MEDICINE (Chicago)	Fourth Year			Third Year			Second Year		
Graduate Work in Medical Sciences.....									
Curriculum in Medicine.....	66	3	69	44	7	51	78	5	83
Total, Medicine.....									
DENTISTRY (Chicago).....	25		25	32	2	34	65	2	67
PHARMACY (Chicago).....							57	4	61
TOTAL IN CHICAGO.....									
TOTAL IN UNIVERSITY, TO MARCH 8, 1921.....									

<sup>1</sup>Students holding bachelor's degrees but taking undergraduate work.<sup>2</sup>Discharged soldiers and sailors admitted by special provision.<sup>3</sup>Subcollegiate students under the auspices of the Federal Board for Vocational Education.<sup>4</sup>Individuals who were registered part of the year as undergraduates and part of the year as graduate students.<sup>5</sup>Summer students who registered also during the following winter session.

.....	747	457	1204
.....	144	33	177
.....	891	490	1381
.....	456	171	627
.....	435	319	754
.....	6441	2302	8743
<i>First Year</i>			
105    4    109	1	...	1
.....	293	19	312
103    103	294	219	313
.....	225	4	229
100    7    107	197	11	208
.....	716	34	750
.....	7157	2336	9493

# DIRECTORY OF ALUMNI ASSOCIATIONS

## GENERAL ALUMNI ASSOCIATION

Office: 358 Administration Building, University of Illinois, Urbana-Champaign.  
Official Publication: The ALUMNI QUARTERLY AND FORTNIGHTLY NOTES, 358 Administration Building.  
Editor: Carl Stephens, '12, 803 West Springfield avenue, Champaign.  
To foster a spirit of loyalty and fraternity among the graduates and former students of the University of Illinois, and to effect united action in promoting the welfare of the University.  
President: J. N. Chester, '91, Union Bank building, Pittsburgh, Pa.  
Secretary-Treasurer: Carl Stephens, '12, 803 West Springfield avenue, Champaign.

## DEPARTMENTAL ALUMNI ASSOCIATIONS

The Alumni Association of the College of Medicine  
President: Dr. H. L. Baker, '99, 3860 Lexington street, Chicago  
Secretary: Dr. J. M. Krasa, '13, 3100 Washington boulevard, Chicago  
The Alumni Association of the Library School  
President: Julia W. Merrill, '03, care of Wis. Library school, Madison  
The Alumni Association of the College of Dentistry  
President: Dr. C. M. Loescher, '04, 1134 Webster avenue, Chicago  
Secretary: Dr. Louis Miller, '06, 3641 W. Twelfth street, Chicago  
The Alumni Association of the School of Pharmacy  
President: B. L. Eicher, Berwyn

## LOCAL ALUMNI ASSOCIATIONS

### California

SAN FRANCISCO: The Golden Gate Alumni Association of the University of Illinois  
President: Frank Bumstead, '06, Library, University of California, Berkeley  
Secretary-Treasurer: Stella M. Bennett, '03, 2629 Le Conte avenue, Berkeley  
SOUTHERN CALIFORNIA: The University of Illinois Alumni Association of Southern California  
President: Helen T. Kennedy, '03, care of Los Angeles Public Library, Los Angeles  
Secretary: Emma E. Seibert, '91, 551 S. Gramerey place, Los Angeles

### Colorado

University of Illinois Club of Colorado  
President: Frank L. Birney, '81, 309 Ideal Block, Denver  
Secretary-Treasurer: Dr. T. J. Fenton, '06, Majestic bldg., Denver

### District of Columbia

WASHINGTON: University of Illinois Club of Washington  
Secretary: T. W. Walton, '10, care of Y. M. C. A.  
Washington Illinae Club  
President: Mrs. Anne Swezey Armstrong, '03, 408 Fontanet court  
Secretary: Jessie M. Kelly, '18, 538 Irving street

### Idaho

The Illini Club of Idaho  
President and Acting Secretary: C. F. Pike, '99, U. S. Assay Office, Boise

### Illinois

AURORA: Aurora Illini Club  
President: M. A. Kendall, '07, 715 Garfield blvd.  
Secretary-Treasurer: W. B. Greene, '08, care Barber-Greene Co.  
BELLEVILLE: The Illini Club of Belleville  
President: L. N. Perrin, '07, Penn bldg.  
CENTRALIA: Centralia Illini Club  
President: Charles Wham, '12  
CHAMPAIGN: Champaign County Illini Club  
President: W. E. Ekblaw, '10, 713 Washington blvd., Urbana  
Secretary: Carl Stephens, '12, 358 Administration bldg., Urbana  
CHICAGO: The Illini Club of Chicago  
President: Parker H. Hoag, '95, Fisher bldg.  
Secretary: R. N. Erskine, '09, 714 Columbia avenue, Oak Park  
University of Illinois Alumnae Association of Chicago:  
President: Elizabeth Leitzbach, '18, 1014 S. Michigan avenue, Apt. 304  
Secretary: Gladys Fishleigh Aleshire, '16, 2151 E. 70th street  
DECATUR: Decatur Illini Club  
President: W. J. Carey, '06, 718 W. Marietta street  
FREEPORT: Freeport Illini Club  
President: Dr. Paul M. Breyer, 408 Lincoln avenue  
Secretary: L. F. Jungkunz, '16, 153 Carroll street

- FULTON COUNTY:** Fulton County Illini Club  
 President: H. S. Boyd, '00, Lewistown  
 Secretary: F. A. Perkins, '01, Canton
- MACOUPIN COUNTY:** McCoupin County Illini Club  
 Secretary: Enos Waters, '14, Carlinville
- MILITARY TRACT ILLINI CLUB**  
 President: Earl V. Bruington, '16, Cameron  
 Secretary: Ralph Wells, '12, Monmouth
- MOUNT OLIVE:** Mt. Olive Illini Club  
 Secretary: J. Orin Powers, '17, Mt. Olive
- NORTHWESTERN ILLINOIS** (Moline, Rock Island, Davenport): Northwestern Illinois Illini Club  
 President: J. H. Samuels, '88, 2515 6th avenue, Moline  
 Secretary: Nels A. Larson, '03, 1339 15½ street, Moline
- PEORIA:** Peoria Illini Club  
 President: Chester O. Fischer, '12, 604 Lehmann bldg.  
 Secretary: George W. Schoeffel, '10, 301 North street
- PIKE COUNTY:** Pike County Illini Club  
 Secretary: Otis Kercher, '14, Pittsfield
- ROCKFORD:** University of Illinois Club of Rockford  
 President: Carl K. Rang, '14, 610 Park avenue  
 Secretary: S. F. Story, '18, 768 N. Second street
- SPRINGFIELD:** Springfield Illini Club  
 President: Fleetwood Lindley, '09, 904 S Fifth street  
 Secretary: Winnifred Supple, '15, 715 E. Cass street
- STERLING:** Sterling Illini Club  
 President: F. W. Honens, '96, care of Sterling Foundry Co.  
 Secretary-Treasurer: Harry R. Cochran, '13, care of Sterling Pulley Co.
- STREATOR:** Streator Illini Club  
 Secretary: E. F. Plumb, '10, care of Streator Brick Co.
- TAYLORVILLE:** Taylorville Illini Club  
 President: Troy Long, '05, Taylorville  
 Secretary: C. E. Hay, '13, Taylorville
- VERMILION COUNTY:** Vermilion County Illini Club  
 Secretary-Treasurer: Mable Bredehoft, '09, 309 Walnut street, Danville
- WAYNE COUNTY:** Illini Club of Wayne County  
 Secretary: Mary Creighton, '17, 207 W. Main street, Fairfield

*Indiana*

- FORT WAYNE:** Illini Club of Fort Wayne  
 President: E. R. Coolidge, '13, 2201 Alabama avenue  
 Secretary-Treasurer: Helen J. Williams, '18, 339 W. Berry street
- INDIANAPOLIS:** Indianapolis Illini Club  
 President: Richard H. Habbe, '14, 704 Fletcher Trust bldg.  
 Secretary: W. H. Seales, '14, care of W. E. Russ, Meridian Life bldg.
- WHITING:** Whiting Illini Club  
 The Illini Club, General delivery, Whiting

*Iowa*

- DES MOINES:** Des Moines Illini Club  
 President: L. S. Ross, '89, 1308 Twenty-seventh street  
 Secretary: E. R. Crowson, ex-'16, care American Life Ins. Co.

*Massachusetts*

- BOSTON:** New England Illini Club  
 President: C. P. Jeffers, '74, Swampscott, Mass.

*Michigan*

- DETROIT:** The University of Illinois Alumni Association of Detroit  
 President: G. B. Allen, '11, 1278 Helen avenue  
 Secretary-Treasurer: C. B. McGrew, '13, Linsdale avenue

*Minnesota*

- MINNEAPOLIS AND ST. PAUL:** Illini Club of the Northwest  
 President: W. E. Lord, '10, 2601 Humbolt ave., Minneapolis

*Missouri*

- KANSAS CITY:** University of Illinois Southwestern Alumni Association  
 President: Daniel C. Ketchum, '99, 415 Keith and Perry bldg.  
 Secretary-Treasurer: E. A. Maxtell, '18, 3200 Main street
- ST. LOUIS:** The Illini Club of St. Louis  
 President: L. E. Young, care of Union Electric Light & Power Co.  
 University of Illinois Alumnae Association of St. Louis  
 President: Mrs. I. S. Foulon, '13, E. St. Louis, Ill.  
 Secretary-Treasurer: Alice Axelson (Mrs. G. J. Lane, '15), 5945 Minerva Avenue

*New York*

- NEW YORK CITY:** University of Illinois Alumni Association of New York  
 President: W. B. Lazear, '07, 50 Church street  
 Secretary: W. C. Lemen, '95, Room 601, 39 Whitehall street
- SCHENECTADY:** The Illini Club of Schenectady  
 President: D. R. Lagerstrom, '11, Box 810  
 Secretary-Treasurer: G. E. Stewart, '12, Gen. Electric Co.

*North Dakota*

- FARGO: Fargo Illini Club  
 President: E. S. Keene, '90, 1028 Seventh street, N.  
 Secretary-Treasurer: I. W. Smith, '08, 1126 Thirteenth street  
 VALLEY CITY: Illini Club of Valley City  
 President: Col. Frank White, '80, 209 W. Park avenue  
 Secretary-Treasurer: Emma E. DeWitt, '11, Extension Division, N. D. Agr. College

*Ohio*

- AKRON: Akron Illini Club  
 President: Ray W. Wilson, '18, 1027-28 Second National bldg.  
 Secretary-Treasurer: Rita Stinson, '16, care of Municipal University  
 CINCINNATI: Cincinnati Illini Club  
 CLEVELAND: The Illini Club of Cleveland  
 President: O. M. Eastman, '09, 15107 Clifton boulevard.  
 Secretary: F. Jehle, '10, 1166 E. 125th street

*Oklahoma*

- TULSA: Tulsa Illini Club  
 President: Hal J. Orr, ex-'20, 206 Gillette bldg.  
 Secretary: George E. Hippard, ex-'11, Oil Dept., Sinclair Oil & Gas Co.

*Oregon*

- PORTLAND: The Illinois Alumni Association of Portland  
 President:  
 Secretary-Treasurer: Norm L. Peck, '15, 591 Hawthorne avenue

*Pennsylvania*

- PITTSBURGH: University of Illinois Club of Pittsburgh  
 President: J. M. Fetherston, '14, 1415 Walnut avenue, Edgewood, Swissvale  
 Secretary-Treasurer: F. S. Kailer, '12, 207 Frick bldg.

*Tennessee*

- MEMPHIS: Memphis Illini Club  
 President: D. M. Crawford, ex-'05, Builders Exchange  
 Secretary: A. S. Fry, '13, 622 Goodwyn Institute bldg.

*Texas*

- DALLAS: Dallas Illini Club  
 President: Fiske Miles, ex-'14, care of Central Texas Gravel Co., 405-6 Deere bldg.  
 Secretary: Mrs. Ross S. Mason, '16, 1009 N. Peak street  
 HOUSTON: Houston Illini Club  
 PALACIOS: Gulf Coast Alumni Club  
 President and Acting Secretary: Mary Williamson Elder, '87

*Utah*

- Inter-Mountain Alumni Association of the University of Illinois

*Washington*

- Puget Sound Association of the alumni and former students of the University of Illinois  
 President: C. G. Parker, ex-'08, 208 Walker bldg., Seattle  
 Secretary: Edith Page Bennett, '00, 2343 Thirty-third avenue

*West Virginia*

- WEST VIRGINIA ILLINI CLUB  
 President: B. H. Questell, '16, Spencer, West Virginia  
 Secretary: E. W. Hawkins, '16, Harrisville, West Virginia

*Wisconsin*

- BELOIT: Beloit Illini Club  
 President: Floyd J. Mackey, '10, care of Fairbanks, Morse & Co.  
 Secretary: Ralph P. Brown, '17, 1403 Lawrence avenue  
 MADISON: University of Illinois Alumni Association of Madison  
 President: A. F. Gallistel, ex-'09, care of University of Wisconsin  
 Secretary: E. J. Potter, '16, 304 Breeze terrace  
 MILWAUKEE: University of Illinois Club of Milwaukee  
 President: Ray Lundahl, '11, 7th floor, City Hall  
 Secretary: Fred G. Fox, '98, School of Engineering.

## LOCAL ASSOCIATIONS IN FOREIGN COUNTRIES

*Brazil*

- The Illini Club of Brazil

*India*

- University of Illinois Association of India  
 President: George C. Hewes, '83, M. E. Mission, Sitapur, Oudh, India  
 Secretary: Agnes G. Hill, '92, Y. W. C. A., Lucknow, India

*Japan*

- Illini Club of Japan  
 President: S. Shiga, '93, Tokyo Technical School, Tokyo  
 Secretary: G. Fujimura, '11, Agricultural Experiment Station, Taihoku, Formos



# INDEX OF NAMES

(BOARDS, FACULTIES, LECTURERS, AND STAFFS)

(For General Index, see page 607)

Aagaard, A. H., 366  
 Abbott, A. N., 12  
 Abbott, H. C., 29, 276  
 Abbott, W. L., 10  
 Adams, Roger, 20, 285  
 Adler, H. M., 34, 230  
 Adolph, W. H., 27  
 Aishton, R. H., 11  
 Albrecht, P. G., 35, 38, 228, 240  
 Alexander, C. P., 326, 439  
 Aldrich, H. A., 12  
 Allen, Ralph, 12  
 Allison, H. O., 427  
 Allison, W. A., 24, 259, 434  
 Allyn, Hester A., 24, 342  
 Alseth, Hilda J., 33  
 Alvord, J. W., 438, 440  
 Ambrose, A. S., 23, 303, 434  
 Ammann, J. F., 12  
 Anders, Paul, 28, 285  
 Anderson, Harriett M., 29, 401  
 Anderson, H. W., 21, 347, 434  
 Anderson, Margaret, 26, 406  
 Andrews, J. W., 31, 286  
 Arms, R. W., 24, 378  
 Armstrong, Byron, 11  
 Armstrong, T. H., 32  
 Atkins, L. C., 23, 372  
 Atkinson, Evelyn, 14  
 Atkinson, H. V., 37, 228  
 Atwood, C. A., 426  
 Austin, F. G., 11  
 Austin, Marion J., 28, 317  
 Babbitt, H. E., 21, 369, 381  
 Babcock, K. C., 13, 15, 18, 41, 438, 439, 440, 441  
 Bacon, A. T., 443  
 Bacon, C. S., 34, 224  
 Badger, C. J., 433  
 Bailey, Dortha B., 28, 285  
 Baily, H. H., 25, 280  
 Baker, P. C., 15  
 Baker, H. L., 36, 230  
 Baker, I. O., 17, 295  
 Baldwin, E. C., 21, 316  
 Bamberger, Arrie, 35, 230  
 Bane, Juliet L., 342, 428  
 Barber, Julia M., 28, 317  
 Barnes, O. A., 27, 285  
 Barnett, G. R., 29, 286  
 Barnett, I. W., 32  
 Barrett, C. W., 34, 226  
 Barrett, Nellie O., 441  
 Baron, Annette, 28, 406  
 Barron-Harrison, Annie E., 36, 224  
 Barrows, H. H., 441  
 Barth, Oris, 27, 354  
 Bartholomew, Harland, 23, 347  
 Barton, D. O., 23, 259  
 Barto, Lucy M., 31, 259  
 Barto, Margaret, 25, 390  
 Barton, H. J., 17, 41, 299  
 Bartow, Edward, 18  
 Bauer, E. E., 26, 295  
 Bauer, F. C., 426  
 Bauer, R. S., 24, 280  
 Baumann, G. E., 11  
 Baumeister, G. F., 427  
 Bayley, W. S., 18, 41, 330  
 Beach, F. H., 14, 30, 280  
 Beal, G. D., 20, 285

Beard, Hallard, 36, 226  
 Beard, J. H., 14, 20, 352  
 Bearg, E. E., 27, 271, 383  
 Beck, J. C., 34, 220  
 Bedell, Florence J., 342  
 Beidleman, F. A., 27, 382  
 Beilin, D. S., 37  
 Bell, Mary E., 31, 286  
 Belting, C. H., 427  
 Belting, P. E., 21, 310  
 Bender, H. A., 29, 360  
 Benedict, B. W., 18, 366  
 Bennett, C. A., 24, 373  
 Bennett, O. A., 26, 413  
 Bentley, Madison, 18, 401  
 Berdahl, C. A., 26  
 Beresford, Arthur, 25, 382  
 Berg, H. J., vanden, 25, 382  
 Berkhaug, T. J., 39, 239  
 Bernard, F. J., 38, 245  
 Bernbaum, Ernest, 19, 41, 316  
 Bevier, Isabel, 17, 342, 428  
 Bianchi, J. B., 30, 406  
 Bierbaum, E. A., 26, 347  
 Bied, W. G., 11  
 Bilsborrow, J. D., 426  
 Bixby, Lorena, 30, 317  
 Blackburn, Florence, 33  
 Blackburn, F. J., 427  
 Blain, W. L., 28, 276  
 Blaine, L. L., 39, 244  
 Blair, F. G., 10  
 Blair, J. C., 17, 347, 434  
 Blaisdell, Daisy L., 25, 406  
 Blake, Margaret D., 10  
 Blatt, M. L., 35, 223  
 Blayney, J. R., 38, 244  
 Bliss, G. R., 426  
 Bloomfield, Leonard, 21, 302, 333  
 Blum, Ethyl M., 33  
 Blumberg, Henry, 22, 359  
 Bode, B. H., 18, 310, 386  
 Boelio, L. N., 37, 39, 218, 239  
 Bogart, E. L., 18, 306  
 Boice, L. A., 13  
 Bolan, Anna R., 39, 246  
 Bollman, J. L., 37, 39, 228, 240  
 Bond, Ethel, 25, 33, 356  
 Bond, Lyda, 24, 342  
 Bonnen, C. A., 30, 329, 434  
 Boot, G. W., 35, 220  
 Borovsky, Maxwell, 37, 223  
 Bosman, Vernon, 31, 286  
 Boucher, Helene V., 30, 406  
 Boughton, I. B., 24, 259, 434  
 Bouin, Juliette, 28, 406  
 Bourgeoise, Alma, 39  
 Bourne, E. G., 282  
 Bower, L. E., 36, 223  
 Bowler, V. B., 221  
 Boyd, Anne M., 25, 33, 356  
 Boyer, C. V., 23, 316  
 Brabrook, A. N., 32  
 Bracker, E. M. D., 427  
 Bradbury, C. E., 22, 269  
 Bradley, M. J., 27, 285  
 Brady, G. K., 317  
 Brady, J. K., 28  
 Brahana, H. R., 26, 359  
 Braley, S. A., 22, 285

- Braude, Benjamin, 37, 231, 233  
 Brazda, Ctimir, 39, 239  
 Brede, L. H., 28, 286  
 Brensky, A. A., 440  
 Brett, Axel, 27, 386  
 Brian, Clara, 429  
 Brinkman, Henry, 39, 243  
 Britton, W. E., 22, 354  
 Brock, W. S., 22, 347, 426  
 Brooks, C. A., 27, 366  
 Brooks, Fannie M., 342, 428  
 Brooks, I. S., 427  
 Brooks, Morgan, 17, 313  
 Brooks, N. C., 15, 21, 333  
 Brooks, Verna, 14, 20, 390  
 Brothers, E. D., 36, 39, 230, 246  
 Brown, Charlotte F., 31, 286  
 Brown, E. E., 427  
 Brown, E. V. L., 34, 226  
 Brown, H. A., 27, 313  
 Brown, P. H., 26, 306  
 Brown, R. L., 31, 436  
 Browne, W. H., 16  
 Browning, I. R., 37, 231, 233  
 Bryan, Sarah E., 33  
 Buck, Miriam G., 31, 286  
 Buckingham, B. R., 19, 41, 310  
 Bull, Skeeter, 23, 259, 434  
 Bullock, D. M., 27, 271, 388  
 Bundy, M. W., 27, 316  
 Bunting, I. N., 24, 282, 436  
 Burge, W. E., 18, 397  
 Burgess, J. E., 23, 265  
 Burgun, E. B., 29, 317  
 Burkhart, P. H., 25, 313  
 Burlison, W. L., 19, 41, 255, 433  
 Burnett, W. B., 28, 285  
 Burns, C. C., 427  
 Burr, W. E., 23, 372  
 Burwash, Mary G., 33  
 Bussey, Mary E., 10  
 Buswell, A. M., 21, 285, 440  
 Buswell, Constance A., 28, 317  
 Butler, C. D., 37, 223  
 Butterworth, F. W., 11  
 Byrd, P. J., 28, 276  
 Calvin, J. K., 37, 223  
 Cameron, E. H., 20, 310  
 Camp, T. J., 21, 372  
 Campbell, M. H., 23, 303, 434  
 Cannon, W. D., 31, 436  
 Canter, H. V., 15, 20, 41, 299  
 Cantwell, R. C., 37, 233  
 Capron, H. S., 10  
 Capps, A. G., 25, 310  
 Carley, P. S., 37, 231  
 Carman, A. P., 17, 41, 391  
 Carmichael, R. D., 20, 359  
 Carnahan, A. H., 14, 19, 41, 406  
 Carney, S. S., 29, 255, 433  
 Carothers, W. H., 30, 31, 286  
 Carr, A. M., 36, 226  
 Carr, R. F., 10  
 Carrv, C. S., 406  
 Center, A. D., 427  
 Chadsey, C. E., 13, 15, 16, 20, 41, 310  
 Chandler, S. C., 439  
 Chauvet, Frank, 35, 221  
 Cheney, G. H., 31, 286  
 Childs, J. B., 33  
 Chiles, H. M., 31, 286  
 Christman, A. A., 31, 286  
 Christenson, Henrietta, 441  
 Christopher, Frederick, 37, 231  
 Churton, Florence H., 23, 41, 342  
 Cigrand, B. J., 36  
 Clark, A. H., 40  
 Clark, S. N., 36, 224  
 Clark, T. A., 13, 14, 17, 41, 316  
 Cleavinger, J. S., 23, 356  
 Cleveland, W. E., 32, 305  
 Clevenger, A. W., 14  
 Clippinger, P. W., 28, 280, 317  
 Clopton, A. C., 440  
 Coats, Nellie M., 33  
 Cobb, W. H., 29, 280  
 Coble, A. B., 19, 359  
 Coe, E. S., 39, 243  
 Coffey, G. N., 426  
 Coffey, W. C., 18, 41, 259, 434  
 Colby, A. S., 22, 347, 434  
 Colby, Ralph, 28, 317  
 Coleman, G. H., 27, 285  
 Collier, J. S., 427  
 Collinwood, D. M., 441  
 Colvin, Esther M., 33  
 Comee, W. C., 36, 220  
 Condit, H. S., 39  
 Connor, D. A., 23, 372  
 Coolidge, E. D., 38, 244  
 Cooper, A. R., 35, 38, 218, 239  
 Cottrell, F. G., 444  
 Coulter, J. M., 438, 439  
 Counseller, V. S., 37, 231  
 Cowie, A. R., 30, 317  
 Crabb, David W., 29, 280  
 Craig, Eleanor, 27, 317  
 Craig, S. J., 428  
 Crandall, C. S., 18, 347, 434  
 Crathorne, A. R., 21, 359  
 Crawford, C. W., 31  
 Crawford, W. L., 37, 224  
 Crecraft, G. R., 28, 317  
 Crile, D. R. W., 37, 231  
 Croft, H. O., 27, 366  
 Crosby, G. M., 32  
 Culver, Harry, 35, 233  
 Culver, H. E., 441, 444  
 Cunningham, H. E., 10, 14, 19, 41, 421  
 Cupit, G. W., 31, 286  
 Currier, L. W., 441  
 Curtis, Elisa, 27, 406  
 Dailey, G. F. N., 14, 20, 372  
 Dalbey, Mary B., 429  
 Dale, C. S., 30, 347  
 Dangremond, L. M. G., 32  
 Daniels, A. H., 13, 15, 17, 41, 386  
 Danner, Edna, 429  
 Davenport, Eugene, 13, 15, 17, 425, 433  
 Davenport, G. L., 35, 230  
 Davidson, A. E., 426  
 Davidson, B. T., 26, 280  
 Davis, D. J., 34, 38, 227  
 Davis, John, 242  
 Davis, J. B., 31, 286  
 Davison, Charles, 34, 230  
 Davison, C. M., 21, 265  
 Day, H. W., 25, 347, 434  
 Day, W. B., 16, 40  
 Day, V. S., 366, 436  
 de Ocampo, M. M., 39, 228, 240  
 Deist, M. W., 39, 244  
 Detlefsen, J. A., 20, 41, 259, 434  
 De Turk, E. E., 22, 254, 433  
 de Werff, H. A., 427  
 Dewey, Kaethe W., 38, 245  
 De Wolf, F. W., 441, 444  
 Dickenson, R. W., 426  
 Dickinson, T. G., 11  
 Dietrichson, Gerhard, 23, 285  
 Dietz, F. C., 22, 337  
 Diffenbaugh, G. L., 30, 317  
 Dillenback, L. C., 22, 265  
 Dittmar, G. W., 38, 244  
 Dodge, D. K., 17, 316  
 Doerschuk, J. J., 428  
 Dolch, E. W., 28, 280, 317  
 Doneghue, R. C., 427  
 Dorjahn, J. A., 40  
 Dorner, H. B., 19, 347, 434  
 Douglas, T. W., 30, 317  
 Dowell, Ruth, 30, 276  
 Doyle, K. A., 33  
 Draffin, J. O., 25, 369  
 Dreger, E. E., 29, 286  
 Drennan, J. G., 11  
 Dreyer, G. P., 34, 38, 228, 242  
 Driggs, F. H., 29, 286  
 Drucker, A. E., 23, 378  
 Drury, F. E., 12  
 Duff, A. M., 305  
 Dunbar, Louise, B., 26, 306

- Dungan, G. H., 24, 255, 433  
 Dunkley, W. A., 441, 444  
 Dunlap, Fanny, 33, 356  
 Dunlap, H. N., 12  
 Dunn, H. H., 23  
 Durst, C. E., 426  
 Dyniewicz, J. M., 40  
**Eastman, W. R., 427**  
 Ebersol, E. T., 427  
 Edgerton, P. R., 427  
 Edington, W. E., 27, 360  
 Edmonds, J. L., 19, 259, 434  
 Edwards, Alice L., 23, 342  
 Edwards, G. P., 28, 285, 440  
 Edwards, H. M., 14  
 Edwards, T. W., 32  
 Ehle, Josephine, 32, 305  
 Eldredge, A. G., 25, 388  
 Elliott, A. R., 35, 221  
 Elliott, F. F., 30, 329, 426, 434  
 Ellis, C. A., 19, 41, 295  
 Ellis, O. I., 433  
 Ellis, R. G., 29, 306  
 Emch, Arnold, 20, 359  
 Enger, M. L., 19, 41, 369, 381  
 Engle, E. A., 28, 285  
 Englis, D. T., 23, 285  
 Ensign, N. E., 23, 369  
 Erb, J. L., 16, 19, 41, 382  
 Evans, F. N., 20  
 Evans, Laura B., 10  
 Evans, M. W., 31, 280  
 Eycleshymer, A. B., 13, 16, 34, 38, 218, 239  
 Eyman, R. L., 427  
 Fairlie, J. A., 18, 398  
 Fanning, R. S., 24, 265  
 Farnsworth, W. O., 406  
 Fedderson, Esther C., 29, 406  
 Feek, John L., 33  
 Fehrenkamp, Winifred, 33, 265  
 Felbeck, G. T., 30, 360, 436  
 Filbey, E. J., 21, 41, 280  
 Finley, W. L., 31, 286  
 Fischer, W. R., 37, 233  
 Fischmann, E. W., 35, 226  
 Fisher, F. A., 428  
 Fitz-Gerald, J. D., 19, 406  
 Fitz-Gerald, T. A., 29, 406  
 Field, E. L., 30, 280  
 Flattery, Amanda M., 33  
 Fleck, A. W., 32  
 Fleming, J. R., 378, 436, 444  
 Fleming, V. R., 21, 369  
 Fletcher, Elizabeth B., 28, 317  
 Flint, W. P., 439  
 Flom, G. T., 20, 316  
 Fogler, M. F., 31, 286  
 Foley, Margaret E., 28, 406  
 Folsom, J. W., 21, 326  
 Fonda, J. E., 39, 245  
 Forbes, Hazel K., 29, 330  
 Forbes, S. A., 17, 326, 433, 439  
 Ford, Carlotta M., 24, 342  
 Ford, E. J., 36, 230  
 Ford, H. L., 37, 231  
 Foss, Charles, 11  
 Frain, Nellie M., 39, 245  
 Fraser, Thomas, 444  
 Fraser, W. J., 17, 303  
 Fritts, E. C., 28, 391  
 Fulkerson, Joseph, 12  
 Fuller, F. E., 427  
 Furby, R. L., 37, 223  
**Gafke, A. J., 427**  
 Gaines, W. L., 20, 303, 434  
 Gallie, D. M., 38, 243  
 Galster, Augusta E., 26, 306  
 Garman, H. B., 14, 41  
 Garner, J. W., 17, 398  
 Garraghan, E. F., 35, 220  
 Garrett, F. W., 426  
 Garver, Willia K., 33  
 Garvey, B. S., 32  
 Gates, A. W., 11  
 Gates, Alicia W., 28, 342  
 Gates, W. D., 11  
 Gathercoal, E. N., 40  
 Gentle, G. E., 427  
 Gernert, W. B., 426  
 Gernon, C. D., 36, 37, 233  
 Geweke, August, 12  
 Giddings, Mate L., 26, 342  
 Gidingshagen, Myrtle R., 29, 406  
 Gilbert, Barry, 443  
 Gildersleeve, Mary E., 429  
 Gill, H. L., 23, 271, 388  
 Gillespie, J. E., 25, 337  
 Ginnings, P. M., 31, 286  
 Glasgow, R. D., 25, 326  
 Glick, P. P., 32  
 Glotfelter, Helen, 429  
 Glover, Anna C., 433  
 Godlove, I. H., 31, 286  
 Goebel, Julius, 18, 333  
 Goldberger, S. M., 36, 223  
 Gooch, Olive M., 26, 382  
 Goodenough, G. A., 18, 41, 366  
 Goodkind, M. L., 34, 221  
 Gore, E. E., 443  
 Gorman, F. L., 39, 243  
 Gottschalk, Clara G., 37, 231  
 Gougler, F. A., 426  
 Graesser, R. F., 29, 360  
 Graham, A. J., 36, 233  
 Graham, Robert, 19, 259, 434  
 Grant, U. S., 441  
 Green, C. F., 26, 359  
 Green, Frederick, 17, 41, 354  
 Greene, E. B., 17, 337  
 Greenfield, R. E., 28, 285, 440  
 Gregory, C. V., 12  
 Griffith, C. R., 26, 401  
 Griffith, J. L., 22, 271, 388  
 Griffith, L. S., 427  
 Griffith, W. H., 29, 286  
 Grindley, H. S., 17, 259, 286, 434  
 Grisemer, Walter, 28, 360  
 Grossman, D. A., 13  
 Groot, J. T., 36, 39, 40, 228, 242  
 Grow, R. W., 22, 372  
 Guba, E. F., 28, 347, 434  
 Guenther, L. H., 32  
 Guenther, Ruth, 23, 342  
 Guiet, R. G., 30, 406  
 Gunton, J. A., 27, 285  
**Habermeyer, G. C., 440**  
 Hackleman, J. C., 426  
 Hague, Florence S., 27, 414  
 Hague, Stella M., 25, 276  
 Hall, B. R., 23, 366  
 Hall, R. A., 26, 305  
 Hall, S. W., 24, 347, 434  
 Halstead, A. E., 34, 230  
 Ham, C. W., 21, 366  
 Ham, L. B., 29, 391  
 Hamilton, Arthur, 22, 406  
 Hamilton, T. S., 434  
 Hammer, Adolph, 218  
 Hammond, W. C., 36, 224  
 Hance, J. H., 441  
 Handschin, W. F., 19, 329, 426, 434  
 Hannon, Esther M., 39, 245  
 Hanson, Alyda C., 26, 330  
 Harding, A. A., 21, 382  
 Harding, H. A., 18, 303, 423  
 Harger, J. R., 35, 230  
 Harker, O. A., 13, 15, 17, 354  
 Harkins, Lilla, 429  
 Harland, M. B., 30, 255, 433  
 Harrington, H. F., 21, 41, 316  
 Harris, B. R., 31, 436  
 Harris, Ferne, 428  
 Harris, L. G., 26, 280  
 Harris, Lyndon, 36, 231  
 Harsch, J. H., 11  
 Harsch, J. W., 30, 436  
 Harsha, W. M., 34, 230  
 Hart, W. E., 428  
 Hartman, Anabel E., 26, 316  
 Hartung, Adolph, 35, 224  
 Harwood, S. D., 29, 317  
 Haseman, Mary G., 26, 360

- Hassin, G. B., 35, 224  
 Hatheld, Margaret, 27, 342  
 Hay, C. E., 426  
 Hayes, E. C., 18, 411  
 Hayward, L. A., 30, 373  
 Hazelet, C. P., 27, 295  
 Heacock, E. M., 36, 224  
 Heath, Margaret A., 37, 226  
 Heater, E. F., 27, 305  
 Heaton, E. B., 426  
 Hedgcock, J. H., 27, 428  
 Hedgcock, W. E., 427  
 Heideman, A. G., 32  
 Hein, E. G. A., 39, 245  
 Hein, L. F. A., 38, 239  
 Heinekamp, W. J. R., 37, 228  
 Heintz, E. L., 34, 221  
 Henley, T. E., 32  
 Henry, A. W., 27, 285  
 Herbert, J. M., 10  
 Herrman, C. C., 29, 306  
 Herrmann, H. J., 32  
 Herron, Miriam E., 33  
 Hersman, F. C., 427  
 Hess, Caroline, 26, 382  
 Hess, J. H., 34, 223  
 Hieronymus, R. E., 25, 254  
 Higgins, A. L., 427  
 Higgins, G. M., 25, 414  
 Hill, C. F., 27, 391  
 Hill, C. S., 22, 347  
 Hillebrand, H. N., 22, 316  
 Hiltbrand, W. P., 433  
 Himmelright, R. J., 29, 280  
 Hitt, Agnes, 428  
 Hobart, C. M., 30, 360  
 Hobart, F. B., 31, 286  
 Hobart, M. H., 36, 233  
 Hoelscher, R. P., 24, 305  
 Hoffman, C. A., 25, 353  
 Hoffman, G., 37  
 Hoffman, Goldye, 226  
 Hogue, C. M., 25, 316  
 Hoyt, O. W., 10  
 Holden, Hale, 11  
 Holderman, J. W., 37, 233  
 Holinger, Jacques, 36, 220  
 Hollingshead, T. E., 32  
 Hollister, H. A., 14, 17, 41, 310  
 Holston, J. B., 32  
 Hoover, Mary, 429  
 Hoover, Ruth, 31  
 Hopkins, B. S., 20, 41, 285  
 Horst, R. L., 31, 286  
 Hottes, C. F., 18, 276  
 Houchens, Josie B., 33, 356  
 House, R. E., 406  
 Huff, G. A., 14, 17, 41, 271, 388  
 Huff, J. O., 13  
 Hughes, C. A., 427  
 Huphitt, Anna L., 25, 390  
 Hulbert, H. S., 36  
 Humiston, C. E., 34, 230  
 Humphreys, Florence M., 27, 317  
 Hunt, Ada E., 23, 342  
 Hunter, M. H., 22, 306  
 Hunter, W. R., 11  
 Huntington, H. A., 31, 305  
 Huntley, O. E., 28, 285  
 Hursh, R. K., 21, 282  
 Hurst, J. W., 29, 360  
 Hutchinson, G. E., 24, 373  
 Hutchinson, James, 24, 347, 434  
 Hutchins, Margaret, 33, 356  
 Hyde, Elizabeth C., 29, 286  
 Hyslop, R. J., 37, 221  
 Hyslop, W. H., 25, 391  
 Ingalls, H. B., 14  
 Ingersoll, A. W., 31, 286  
 Irish, H. E., 35, 223  
 Isaacs, T. R., 427  
 Jacobs, C. M., 34  
 Jacobsen, Eda A., 24, 342  
 Jacobson, H. G. M., 433  
 Jacobson, L. J., 37, 221  
 James, E. J., 17  
 Jamison, A. W., 21  
 Janvvin, C. E., 33, 439  
 Jenkins, Carter, 32  
 Jensen, W. J., 29, 391  
 Jerry, Ralph, 40  
 Jirka, F. J., 36, 221  
 Johnsen, H. C., 32, 305  
 Johnson, Alice S., 33, 356  
 Johnson, F. T., 25, 382  
 Johnson, R. C., 30, 373  
 Johnston, Mrs. Charles H., 27, 310  
 Johnston, E. S., 23, 372  
 Jones, H. M., 36, 38, 227, 242  
 Jones, H. S. V., 21, 316  
 Jones, P. V. B., 22, 337  
 Jones, T. S., 36, 218  
 Jones, W. B., 317  
 Jordan, H. H., 15, 19, 41, 305  
 Juhnke, L. A., 36, 226  
 Jungiohann, Mary, 39, 245  
 Junkin, Della D., 29, 285  
 Juric, J. P., 32  
 Jutton, Emma R., 33  
 Kaliski, S. R., 37, 223  
 Kammblade, W. G., 23, 259, 434  
 Karpmeier, O. F., 35, 38, 218, 239  
 Karraker, A. H., 433  
 Karshner, C. F., 37  
 Keeton, R. W., 35, 228  
 Keith, Mary H., 434  
 Kelley, Cornelia P., 29, 317  
 Kelley, V. W., 31, 254  
 Kelly, Michael, 30, 373  
 Kelso, Ruth, 25, 316  
 Keltner, C. H., 428  
 Kempner, A. J., 21, 359  
 Kendall, G. B., 427  
 Kennedy, R. E., 23, 366  
 Kenney, Pearl C., 342  
 Kercher, Otis, 427  
 Kerrick, C. E., 39, 239  
 Kienholz, A. R., 28, 276  
 Killefer, R. C., 32  
 King, E. E., 19, 295, 403  
 Kingsley, J. S., 18, 41, 414  
 Kingsley, Mary W., 29, 337  
 Kinley, David, 13, 17, 34, 38, 40, 51, 421, 433, 436, 443, 444  
 Kline, J. C., 426  
 Kloot, A. V., 221  
 Knapp, Elizabeth, 356  
 Knappen, R. S., 441  
 Knight, A. R., 23, 313  
 Knipp, C. T., 19, 391  
 Knollin, E. R., 28, 271, 388  
 Knowlton, E. C., 25, 316  
 Kocour, C. J., 373  
 Koller, A. H., 22, 333  
 Kommers, J. B., 20, 436  
 Kordenat, R. A., 233  
 Koten, I. A., 31, 286  
 Krasa, J. C. M., 36, 221  
 Kratz, A. P., 366, 436  
 Kreici, E. J., 39, 243  
 Krelstein, B. S., 32  
 Kremers, H. C., 24, 285  
 Krey, Frank, 441  
 Krieg, Amelia, 33  
 Kruse, C. F., 26, 310  
 Kubacki, W. H., 38, 244  
 Kudo, Rokusaburo, 25, 414  
 Ku Klux Klan, 104  
 Kunz, Jakob, 20, 391  
 Kyle, Martha J., 25, 316  
 LaDue, J. B., 39, 244  
 Lager, E. W., 32  
 Lajdlaw, Elizabeth, 33  
 Lake, E. J., 17, 269  
 Lamar, J. E., 27, 330, 441  
 Lamb, J. N., 433  
 Lambird, C. D., 39, 242  
 Lampert, Max, 14, 24, 352  
 Lampertz, E. J., 30, 280  
 Landis, P. N., 28, 317  
 Lang, J. M., 35, 226  
 Langford, Ernest, 25, 265

- Langley, W. D., 29, 286  
 Lanham, E. T., 23, 366  
 Lantz, M. P., 12  
 Lapp, C. J., 27, 391  
 Larson, C. C., 28, 285, 440  
 Larson, L. J., 26, 369  
 Larson, L. M., 18, 41, 337  
 Lawrence, Margaret T., 33  
 Layng, T. E., 22, 285  
 Leach, J. J., 37  
 Leautier, Marie L., 28, 406  
 Lee, Pannie, 30, 342  
 LeGrand, Jules, 39, 243  
 Lehenbauer, P. A., 21, 347, 434  
 Leichenring, Jane M., 28, 397  
 Leighton, M. M., 21, 330, 441  
 Leist, Claude, 30, 414  
 Leisy, E. E., 25, 316  
 Leonard, F. B., 27, 354, 441  
 Leonard, L. F., 35, 224  
 Lepak, Joseph, 227  
 Lessing, O. E., 18, 333  
 Leutwiler, O. A., 19, 366  
 Levin, I. M., 37, 223  
 Levinson, S. A., 227  
 Lewis, E. P., 30, 347  
 Lewis, H. B., 20, 285  
 Lewis, H. F., 34, 224  
 Lewis, Madge R., 27, 390  
 Lewison, Maurice, 34, 221  
 Lewman, Ruth L., 28, 406  
 Libman, E. E., 27, 282  
 Lichtenberger, Cleo, 33  
 Lindgren, J. M., 441  
 Lindley, W. C., 11  
 Linsley, C. M., 433  
 Litman, Simon, 20, 306  
 Littleton, A. C., 15, 22, 280  
 Lloyd, J. H., 427  
 Lloyd, J. W., 18, 41, 347, 434  
 Lochte, H. L., 31, 286  
 Lockwood, C. H., 37, 226  
 Logan, C. C., 426  
 Longmire, F. E., 427  
 Lopez, M. L., 406  
 Lorch, G. J., 35, 221  
 Lougee, Flora M., 29, 285  
 Lounsbury, B. F., 35, 233  
 Lowe, Lucretia, 28, 317  
 Lucas, A. A., 228  
 Lumbrick, Arthur, 428  
 Lummis, J. G., 32  
 Lundgren, C. L., 24, 271, 388  
 Lybyer, A. H., 19, 41, 337  
 Lynch, J. E., 30, 373  
 Lyon, D. A., 444  
 Lytle, E. B., 22, 41, 359  
**McAdams, May E.**, 24, 347  
 McAnally, Marian P., 31, 317  
 McAnlis, C. R., 25, 265  
 McCaughtry, Ruth C., 33  
 McConn, C. M., 13, 41  
 McCormick, R. E., 30, 317  
 McCrea, F. D., 30, 397  
 McCullough, Helen E., 26, 342  
 McDougall, W. B., 21, 276  
 McFarlan, L. H., 29, 360  
 McGhee, O. M., 427  
 MacGillivray, A. D., 19, 326  
 McGraw, Katherine L., 33  
 McGuigan, H. M., 34, 228  
 McGuire, M. Ruth, 224  
 Macintire, H. J., 22, 366  
 McKenna, C. M., 35, 233  
 McKenzie, Kenneth, 19, 41, 406  
 MacKinnon, Jean G., 342  
 McMasters, C. J., 12  
 McNealy, R. W., 35, 230  
 McNeely, J. K., 24, 305  
 McSparran, Dorothy, 29, 317  
 Madden, I. A., 427  
 Mahan, T. O., 30, 373  
 Malcolm, W. A., 37, 221  
 Malloch, J. R., 439  
 Mallory, Fairie J., 428  
 Manley, E. J., 25, 271, 382  
 Mann, P. I., 12  
 Markham, C. H., 11  
 Marks, Julian, 220  
 Mars, H. F., 36, 233  
 Marvel, C. S., 26, 285  
 Mason, J. P., 11, 12  
 Mason, Ruby E. C., 13, 14, 19, 41  
 Mathews, J. M., 20, 398  
 Mayers, L. H., 36  
 Mayhew, R. L., 29, 414  
 Mays, A. B., 353  
 Mazel, M. S., 36  
 Meakin, Genevieve L., 218  
 Meents, W. H., 35  
 Meier, H. J., 32  
 Metcalf, W. B., 35, 221  
 Metz, A. R., 37, 233  
 Meyer, K. A., 35, 230  
 Meyerovitz, Max, 36, 230  
 Meyers, I. L., 35, 224  
 Michaels, E. E., 31, 436  
 Middleton, E. B., 29, 285  
 Miller, G. A., 18, 359  
 Miller, H. M., 31, 414  
 Miller, R. B., 439  
 Mills, L. E. M., 30  
 Mills, Matthew, 36, 230  
 Miner, J. H., 427  
 Miscall, Leonard, 26, 305  
 Mitchell, H. H., 21, 259, 434  
 Mitchell, P. M., 32  
 Mohlman, Z. H., 26, 347, 434  
 Moncreiff, W. F., 37  
 Monroe, W. S., 20, 310  
 Montgomery, J. T., 427  
 Moodie, R. L., 35, 38, 218, 2  
 Moore, E. S., 35, 221  
 Moore, F. D., 35, 230  
 Moore, H. F., 369, 436  
 Moore, J. J., 35, 38, 227, 242  
 Moorehead, F. B., 13, 16, 38, 245  
 Moose, J. E., 29, 286  
 Morey, Lloyd, 10, 14, 22, 41, 280  
 Morgan, I. B., 32  
 Morris, Caroline R., 26, 390  
 Morrison, Lethe E., 27, 276  
 Morrow, Joseph, 14  
 Mosely, E. W., 37, 221  
 Mosher, M. L., 428  
 Mosier, J. G., 18, 255, 433  
 Moss, C. M., 17, 299  
 Moulton, Gertrude E., 14, 24, 41, 352  
 Mumford, H. W., 17, 259, 433  
 Munn, Lottie E., 31, 286  
 Murphy, J. M., 23, 372  
 Murray, Grace M., 356  
 Mustell, R. R., 37  
 Mylius, L. A., 441  
**Nachtigall, H.**, 37, 224  
 Nadeau, O. E., 35, 38, 218, 230, 239  
 Nearpass, E. E., 25, 269  
 Nelson, R. A., 28, 391  
 Nelson, R. S., 31, 286  
 Nelson, Severina E., 30, 317  
 Nevvas, Jacob, 31, 286  
 Newcomb, Rexford, 21, 265  
 Newman, Joseph, 11  
 Newton, Helen C., 342  
 Nizum, John, 227  
 Noble, Mary, 26, 390  
 Nolan, A. W., 20, 254  
 North, E. O., 29, 286  
 Norton, E. A., 433  
 Noyes, F. B., 38, 239, 246  
 Noyes, W. A., 18, 285, 438, 440  
 Nuttall, Olive E., 32, 276  
 Nuzum, J. W., 36  
 Nylander, V. T., 38, 243  
**Oathout, C. H.**, 426  
 Ochsner, A. J., 34, 230  
 Odell, C. W., 30, 310  
 Odell, W. W., 444  
 O'Donnell, T. E., 24, 265  
 Oesterling, H. C., 30, 317  
 O'Hara, F. H., 38  
 Oldfather, W. A., 19, 299, 337

- Oliver, T. E., 17, 406  
 Olmstead, A. T., 15, 19, 337, 386  
 Ort, R. K., 39, 244  
 Outten, G. C., 12  
 Overman, O. R., 22, 303, 434  
**Pack, Mary, 428**  
 Page, G. T., 11  
 Paime, E. B., 18, 313  
 Palmer, C. E., 22, 265  
 Parker, G. S., 26, 313  
 Parkhurst, A. J., 30, 286  
 Parkinson, H. N., 27  
 Parkinson, Nellie, 227  
 Parks, E. E., 30  
 Parmelee, C. W., 19, 282, 441  
 Parr, Rosalie M., 24, 285  
 Parr, S. W., 17, 285, 436, 441  
 Parry, J. J., 25, 316  
 Patton, Adah, 33  
 Patton, J. M., 34, 221  
 Paul, H. G., 20, 41, 316  
 Paul, Katherine H., 27  
 Pease, A. S., 15, 19, 299  
 Pease, T. C., 22, 337  
 Peet, C. H., 28, 285  
 Peltz, R. C., 32  
 Pember, A. H., 37  
 Pember, Aubrey, 224  
 Percy, N. M., 34, 230  
 Perrine, W. S., 12  
 Perry, M. C., 440  
 Perry, Winifred A., 28, 317  
 Petersen, W. F., 227  
 Peterson, L. L., 26, 347  
 Peterson, W. W., 24, 303  
 Peterson, W., 38, 242  
 Petrit, H. P., 28, 360  
 Phifer, C. H., 35, 230  
 Phillips, E. M., 427  
 Phillips, Harriet M., 254, 426  
 Phillips, Mary D., 25, 382  
 Pickels, G. W., 22, 295, 441  
 Pickett, B. S., 19, 347, 434  
 Pieper, John, 255, 433  
 Pierce, J. S., 31, 286  
 Pierce, N. H., 34, 220  
 Pilot, Isador, 37, 38, 227, 242  
 Pinsenshaum, Adam, 30, 373  
 Piper, H. B., 427  
 Plunkett, O. A., 29, 276  
 Pollock, H. R., 426  
 Polson, J. V., 21, 366  
 Pomeroy, J. N., 18, 354, 443  
 Porter, C. L., 28, 276  
 Porter, F. M., 23, 305  
 Porter, P. K., 29, 286  
 Post, G. W., Jr., 36, 230  
 Potter, P. B., 337, 398  
 Powers, J. O., 310  
 Prante, Beulah W., 29, 317  
 Prehn, P. H., 27, 271, 388  
 Prescott, M. U., 228  
 Price, Earl, 427  
 Price, F. E., 26, 353  
 Price, M. O., 33  
 Province, L. H., 18, 265  
 Prucha, M. J., 20, 303, 434  
 Putnam, W. J., 24, 369  
 Putnam, W. S., 23, 285  
**Quigley, W. J., 36, 221**  
 Quirke, T. T., 20, 330  
**Radebaugh, G. H., 22, 41, 366**  
 Rahn, Carl, 23, 401  
 Randall, J. G., 23, 337  
 Randolph, J. W., 30, 255  
 Rankin, F. H., 15, 19, 41, 254  
 Raphaelson, Sampson, 30, 317  
 Rasmussen, H. E., 32  
 Ratcliffe, C. F., 29, 286  
 Ratcliffe, S. C., 26, 411  
 Rauchenstein, Emil, 23, 329, 426, 434  
 Raut, Alfred, 427  
 Rawlings, H. F., 24  
 Ray, R. B., 337  
 Rayner, W. H., 22, 295  
 Read, C. F., 35, 224  
 Reed, Cordelia, 28, 406  
 Reed, E. F., 411  
 Reed, L. B., 32  
 Reedy, J. H., 21, 285  
 Rehling, C. H., 426  
 Rehn, Henry, 39, 239  
 Reid, D. L., 23, 254  
 Reid, E. A., 24, 313  
 Reinsch, B. P., 27, 360  
 Rhode, C. S., 24, 303, 416  
 Rhue, Lena C., 30, 329, 424  
 Rice, A. C., 12  
 Rice, G. S., 444  
 Rice, J. B., 23, 259, 434  
 Rice, W. G., 29, 317  
 Richards, C. R., 13, 15, 16, 18, 436, 444  
 Richards, W. B., 427  
 Richardson, R. E., 439  
 Richart, F. E., 369, 436  
 Richey, P. S., 427  
 Richmond, T. E., 24, 255, 433  
 Ricker, N. C., 17, 265  
 Riddell, M. R., 22, 366, 436  
 Rinaker, Clarissa, 23, 316  
 Ringland, Anna D., 28, 317  
 Ripley, L. B., 31, 326  
 Ritter, Claris, 31, 390  
 Roark, P. D., 11  
 Robbins, E. T., 426  
 Roberts, T. H., 426  
 Roberts, Elmer, 22, 259, 434  
 Robertson, Eleanor M., 33  
 Robertson, W. S., 20, 41, 337  
 Robinson, Anna I., 37, 223  
 Robinson, M. H., 17, 306, 443  
 Rodewald, C. W., 31, 286  
 Rogers, Caroline, 429  
 Rogers, C. C., 35, 230  
 Rogers, W. T., 37, 221  
 Rohe, W. H., 32  
 Rohriack, O. H., 35, 224  
 Rolfe, C. W., 17, 330  
 Romyn, A. E., 30, 259  
 Root, Lucie E., 27, 285  
 Rosecrans, C. Z., 30, 360, 436  
 Rosenblum, Philip, 37, 223  
 Ross, H. A., 24, 434  
 Roth, W. J., 26, 329, 434  
 Rowe, C. A., 12  
 Rucker, H. J., 426  
 Ruckmick, C. A., 20, 401  
 Rudd, W. N., 12  
 Ruehe, H. A., 21, 303, 434  
 Rumbough, W. S., 23, 372  
 Rusk, H. P., 19, 259, 434  
 Russell, C. C., 32  
 Russell, F. A., 21, 280  
 Ruth, W. A., 22, 347, 434  
 Rutherford, Elizabeth J., 28, 401  
 Rutledge, H. J., 228  
 Rutlin, Lillian I., 26, 382  
 Saelhof, C. C., 37, 39, 228, 240  
 Salisbury, R. D., 438, 441  
 Sanders, W. H., 29, 391  
 Saunders, Alta G., 25, 280, 316  
 Saunders, H. P., 36, 39, 228, 242  
 Savage, T. E., 20, 330, 441  
 Schaefer, P. P., 11  
 Schaeffer, O. G., 24, 347  
 Schlatter, C. F., 26, 280  
 Schleck, H. J., 228  
 Schlesinger, David, 32  
 Schmeltzer, C. B., 29, 295, 441  
 Schmidt, C. C., 28, 391  
 Schmidt, F. D., 228  
 Schmitt, E. C., 36, 230  
 Schneider, R. F., 31, 286  
 Schoenberg, A. J., 35, 226  
 Scholes, Charles, 39, 244  
 Scholl, C. A., 24, 253  
 Schricker, O. W., 25, 366  
 Schroeder, R. W., 27, 366  
 Schuettner, A. J., 23, 271, 388  
 Schultz, Louis, 38, 245  
 Schulz, W. F., 21, 391  
 Schwab, Frances, 39, 239

- Schwalbe, W. L., 26, 369  
 Schwartz, G. F., 21, 382  
 Schwarze, H. R., 24, 259, 434  
 Sconce, H. J., 12  
 Scott, F. W., 21, 41, 316  
 Scovill, H. T., 19, 280  
 Scranton, L. L., 32  
 Sears, O. H., 24, 255  
 Seely, F. B., 20, 369  
 Seelye, Katharine E., 25, 382  
 Seneary, F. E., 35, 220  
 Sergeant, A. Gertrude, 30, 317  
 Seybolt, R. F., 20, 310  
 Shaw, Hazel Y., 33  
 Shaw, J. B., 19, 359  
 Shawl, R. I., 24, 255  
 Shelford, V. E., 20, 414, 439  
 Shellenberger, Grace, 356  
 Shelton, G. R., 31, 436  
 Shepardson, F. W., 438, 439, 440, 441  
 Shephard, Jean C., 29, 286  
 Sherman, S. P., 18, 41, 316  
 Shinn, J. R., 427  
 Shiro, Joseph, 31, 276  
 Siegrist, L. A., 32  
 Signor, Nellie M., 33  
 Simpson, Frances, 15, 21, 356  
 Sims, Marjorie, 428  
 Singer, H. D., 34, 224  
 Sippy, B. O., 38, 246  
 Sisson, O. U., 11  
 Small, Len, 10  
 Smejkal, H. J., 36, 233  
 Smejkal, Richard, 32  
 Smith, E. R., 24, 359  
 Smith, Florence E., 433  
 Smith, Frank, 18, 414  
 Smith, H. E., 12  
 Smith, H. J., 36, 220  
 Smith, J. E., 21, 295  
 Smith, L. H., 18, 41, 433  
 Smith, R. S., 22, 255, 433  
 Smith, S. B., 427  
 Smith, W. H., 20, 259, 426  
 Smithies, Frank, 34, 221  
 Smithers, Adelaide E., 22, 406  
 Snapp, R. R., 22, 259, 434  
 Snider, H. J., 22, 255, 433  
 Snider, W. V., 26, 280  
 Snodgrass, J. M., 19, 403  
 Snyder, A. E., 427  
 Snyder, G. T., 427  
 Snyder, M. J., 439  
 Snow, C. M., 36, 40, 228  
 Soule, J. E., 32  
 Soto, R. A., 27, 406  
 Sowers, Mildred, 31, 401  
 Sparks, K. E., 29, 285  
 Sparks, Marion E., 33, 285  
 Spencer, V. E., 26, 255, 433  
 Spitler, J. C., 426  
 Sprague, J. P., 36, 233  
 Standish, H. S., 39, 246  
 Stanton, W. M., 22, 265  
 Stark, R. W., 433  
 Starr, C. G., 428  
 Starr, S. P., 38, 244  
 Stebbins, Joel, 18, 270, 360  
 Steimley, L. L., 26, 359  
 Steiner, Jeannie V., 342  
 Stephen, C. T., 37, 39, 228, 242  
 Stephenson, J. C., 38, 218, 239  
 Stevens, F. L., 19, 276  
 Stevens, R. G., 31, 286  
 Stevenson, P. R., 29, 310  
 Stewart, S. C., 24, 373  
 Stewart, S. P., 26, 265  
 Stickney, E. E., 29, 360  
 Stipes, J. W., 11  
 Stirtz, B. A., 26, 303, 434  
 Stoek, H. H., 18, 378, 444  
 Stone, F. L., 36, 226  
 Storey, W. B., 11  
 Stormzand, M. J., 310  
 Story, R. M., 20, 41, 398  
 Strauss, Sidney, 35, 221  
 Stuart, C. W., 39, 245  
 Stubbins, J. R., 295  
 Sullivan, T. J., 36, 233  
 Summers, W. L., 20, 354  
 Sutherland, E. H., 22, 411  
 Swain, J. W., 25, 337  
 Swan, Florence, 429  
 Swift, R. B., 11  
 Syford, Constance, 26, 316  
 Szewajhart, Eugene, 39, 239  
 Taft, Lorado, 20, 269  
 Talbot, A. N., 17, 369, 381  
 Tanner, F. W., 22  
 Tanner, J. M., 12  
 Tanner, R. W., 276  
 Tarble, Charles, 426  
 Tate, Alfred, 427  
 Taylor, C. R., 12  
 Taylor, Grace, 428  
 Taylor, P. C., 30, 280  
 Teagarden, Irene, 30, 342  
 Tenney, Mae E., 29, 317  
 Theobald, W. H., 36, 220  
 Thomas, C. J., 427  
 Thomas, H. B., 35, 233  
 Thomas, L. J., 28, 414  
 Thomas, Melvin, 426  
 Thomas, N. G., 16, 38, 239  
 Thomas, R. P., 433  
 Thompson, C. M., 13, 15, 20, 306  
 Thompson, D. H., 28, 414  
 Thompson, G. F., 34, 230  
 Tice, Frederick, 34, 221  
 Tillman, B. W., 427  
 Tobias, Frank, 32  
 Tolman, R. G., 32  
 Townsend, E. J., 18, 41, 359  
 Townsend, M. T., 28, 414  
 Tracy, Grover, 36, 38, 228, 240  
 Tracy, P. H., 30, 303, 434  
 Treat, Edna A., 26, 382  
 Trelease, William, 18, 276, 438, 349  
 Trimble, C. A., 10  
 Trimble, H. D., 14  
 Troutman, W. C., 26, 316  
 Truitt, R. C. P., 35, 224  
 Truman, Edna, 429  
 Tupper, Caroline F., 27, 317  
 Turner, Bird M., 26, 360  
 Tuthill, J. K., 24, 403, 436  
 Tuttle, G. P., 13, 41, 443  
 Tylman, Stanley, 39, 244  
 Uhlendorf, B. A., 27, 333  
 Upp, R. W., 38, 244  
 Uyei, Nao, 434  
 Valentine, R. W., 27, 306  
 Valin, Honore D., 37, 224  
 VanAken, Kathryn G., 428  
 VanCleave, H. J., 22, 414  
 Vanderkloot, A., 36  
 Vander Veen, George, 27, 255, 433  
 Van Horne, John, 22, 406  
 Vaniman, Verne, 426  
 Vaughn, J. C., 12  
 Vaughn, S. J., 21, 353  
 Vincent, Esther H., 26, 382  
 Vlcek, F. J., 218  
 Vollmer, Sylvia M., 28, 406  
 Volz, E. C., 22, 347, 434  
 Wadley, F. M., 439  
 Wagner, W. I., 29, 360  
 Wahl, G. J., 32  
 Wahlen, F. G., 27, 360  
 Wahlin, G. E., 21, 359  
 Waldo, E. H., 21, 313  
 Walter, F. K., 27, 356  
 Walther, Albertine, 30, 406  
 Walton, Carrie, 227  
 Walton, D. D. L., 30, 406  
 Walworth, E. H., 426  
 Ward, H. B., 18, 41, 414  
 Ward, R. R., 10  
 Wardell, Emma L., 22, 41, 342  
 Warnock, Mary L., 33, 356  
 Washburn, C. S., 26, 305  
 Washburn, E. W., 18, 282, 286, 441

- Washburn, F. L., 12  
 Wasserman, M. J., 28, 306  
 Watkins, Gordon, 20, 41, 306, 411  
 Watkins, W. E., 427  
 Watson, E. S., 27, 317  
 Watson, F. R., 19, 41, 391  
 Watson, Jane C., 27, 406  
 Watson, J. W., 427  
 Watt, R. A., 25, 305  
 Weatherston, John, 35, 221  
 Weaver, Virginia H., 24, 342  
 Weaver, W. K., 40  
 Webb, William, 12  
 Webster, E. H., 32  
 Weinard, Alta W., 29, 276  
 Weinard, F. F., 28, 276  
 Weirick, R. B., 24, 316  
 Weldon, Myrtle, 428  
 Welker, W. H., 35, 38, 228, 240  
 Weller, Stuart, 441  
 Wells, N. A., 17, 265  
 Wells, R. R., 428  
 Westergaard, H. M., 24, 369  
 Weston, N. A., 19, 306  
 Wetmore, Mary M., 25, 269  
 Wheeler, H. C., 427  
 Whitchurch, J. E., 427  
 White, Howard, 29, 398  
 White, J. M., 13, 14, 17, 265  
 Whitesides, J. G., 23, 373  
 Whiting, A. L., 20, 255, 433  
 Whitlock, Mary C., 27, 342  
 Wilder, R. E., 38, 244  
 Wilder, Susan, 428  
 Wiley, C. C., 22, 295, 441  
 Wildman, E. A., 286  
 Wilkerson, Mabel, 428  
 Willard, A. C., 19, 366  
 Williams, C. A., 22, 333  
 Williams, E. H., 21, 391  
 Williams, L. W., 310  
 Williams, R. E., 24, 317, 373  
 Williams, W., 38, 243  
 Williamson, C. S., 34, 220, 221  
 Wilson, F. S., 35, 221  
 Wilson, Martha, 25, 356  
 Wilson, T. A., 29, 286  
 Wilson, W. C., 28, 285  
 Wilson, W. M., 20, 295  
 Wilson, W. W., 426  
 Wimer, D. C., 24, 255, 433  
 Windsor, P. L., 15, 18, 33, 41, 355  
 Winters, F. J., 24, 271, 388  
 Williams, L. W., 25  
 Wise, L. W., 427  
 Woodard, John, 433  
 Woodroffe, Louise M., 25, 265  
 Woods, D. E., 30, 313  
 Woodworth, C. M., 23, 255, 433  
 Woolbert, C. H., 21, 316  
 Volkoff, M. I., 433  
 Wolter, H. F., 426  
 Worsham, W. B., 30, 391  
 Worsley, Raymond, 39  
 Wright, A. D., 25, 366  
 Wright, A. T., 28, 317  
 Wright, Emma, 429  
 Wright, Ivan, 26, 306  
 Wright, J. F., 26, 317  
 Wylie, C. C., 29, 270  
 Yancey, H. F., 444  
 Yapp, W. W., 22, 303, 433  
 Yarros, Rachelle S., 34, 224  
 Yeager, L. H., 32  
 Yeaton, W. J., 26, 330  
 Yerger, C. F., 36, 220  
 Young, W. H., 254  
 Zeitlin, Jacob, 21, 41, 316  
 Zeleny, Charles, 19, 414  
 Zuppke, R. C., 22, 271, 388



# GENERAL INDEX

- Abelian functions, courses in, 362  
 Acacia, 104  
 Accountancy  
   Board of Examiners in, 443  
   courses in, 280  
   curriculum, 137  
   societies, 103  
   University committee, 443  
 Accounting  
   farm, courses in, 280  
   governmental, 281  
 Accredited schools  
   admission from, 75  
   committee on, 41  
   list of, 79  
 Achuth, 104  
 Actuarial theory, course in, 362  
 Adams fund, 49  
 Adelpic Literary Society, 102  
 Administration, 66  
   building, 57  
   committees, 41  
   Council of, 13  
   officers of, 13  
 Admission, 69  
   advance standing, to, 76  
   certificate, by, 75  
   deficiencies, 69  
   elective subjects, 71  
   examination, by, 74  
   foreign students, 76  
   from higher institutions, committee on, 41  
   principal's recommendation for, 73  
   professional schools, to, 73, 76  
   special students, 73  
   subjects accepted, 83  
   subjects prescribed, 70  
   Summer Session, 203  
   transfer of credits, 76  
   undergraduate colleges, 69  
   units, number required, 69  
   (See also under separate colleges and subjects)  
 Advance degrees, 175  
 Advance standing, admission to, 76  
   (See also under separate colleges and subjects)  
 Advertising, course in, 282  
 Advisory boards  
   Agricultural experiment station, 11  
   ceramic engineering, 11  
   Law, college of, 11  
   pharmacy, school, 11  
   railway industries of Illinois, for, 11  
 Aeronautic engineering, courses in, 367  
 Agency, course in, 385  
 Agricultural analysis, course in, 289  
 Agricultural buildings, 55  
 Agricultural Club, 104  
 Agricultural education  
   courses in, 254  
   curriculum in, 190  
   faculty, 254  
 Agricultural news writing, courses in, 324  
 Agricultural experiment station  
   advisory board, 11  
   established, 47, 435  
   staff, 433  
   agronomy, 433  
   animal husbandry, 433  
   dairy husbandry, 434  
   farm organization and management, 434  
   horticulture, 434  
 Agricultural extension, 161, 425  
   cooperative work, 425  
   courses in, 254  
   extension specialists, 426  
   faculty, 254  
   lectures, 98  
   staff, 426  
 Agricultural scholarships, 106  
 Agriculture, for admission, 83  
 Agriculture, College of  
   administrative officers, 15  
   admission to graduate work, 73, 74  
   agronomy, 161  
   animal husbandry, 161  
   buildings, 55  
   collections, 65  
   clubs auxiliary to courses of study, 104  
   curriculums, 67  
   agriculture, general, 164  
   farm organization and management, 165  
   floriculture, 166  
   home economics, 167  
   landscape gardening, 169  
   teachers of agriculture, for, 170  
   teacher training, 168  
   degrees conferred, 1920, 569  
   departments, 161  
   extension work, 425  
   facilities, 161  
   fees, 113  
   general statement, 160  
   graduation, requirements for, 164  
   horticulture, 163  
   lectures, 98  
   methods of instruction, 161  
   officers, 15  
   reading room, 62  
   scholarship, 106-110  
   short courses, 170  
   societies, 103  
   special students, 73  
   summary of courses, 67  
 Agriculture, economics of, courses in, 307, 303  
 Agriculture, teachers of, curriculum for, 170  
 Agriculture, two weeks course in, 170  
 Agronomy, 161  
   barn, description, 55  
   buildings, 55  
   courses in, 256, 257, 258, 259  
   description of department, 161  
   extension specialists, 426  
   faculty, 255  
   greenhouse, 55  
   teaching of, course in, 255  
 Aid, students', 110  
 Alethenai Literary Society, 102  
 Algae, taxonomy and morphology of, courses in, 278  
 Algebra, courses in, 360, 362, 363, 364, 365  
 Alpha Alpha Alpha, 103  
 Alpha Chi Omega, 104  
 Alpha Chi Rho, 104  
 Alpha Chi Sigma, 103  
 Alpha Delta Phi, 104  
 Alpha Delta Pi, 104  
 Alpha Delta Sigma, 104  
 Alpha Epsilon Pi, 104  
 Alpha Gamma Delta, 104  
 Alpha Gamma Rho, 104  
 Alpha Kappa Psi, 104  
 Alpha Omicron Pi, 104  
 Alpha Phi Alpha, 104  
 Alpha Rho Chi, 103  
 Alpha Sigma Phi, 104  
 Alpha Tau Omega, 104  
 Alpha Xi Delta, 104  
 Alpha Zeta, 103  
 Alternating currents, courses in, 314  
 Alumni Association, 101  
 Alumni associations, 596  
 Alumni Loan Fund, 186  
 American Academy Prize in Architecture, 94

- American Association of Engineers, 104  
 American Ceramics Society, 103  
 American Chemical Society, 103  
 American diplomacy, course in, 341, 399  
 American history  
   courses in, 341, 342  
   seminar in, 340  
 American Institute of Architects Medal, 94  
 American Institute of Electrical Engineers, 103  
 American Institute of Mining and Metallurgical Engineers, 103  
 American literature, courses, 318, 320, 321  
 American national government, course in, 398  
 American political ideals, courses, 338  
 American religious history, courses in, 341  
 American Society of Mechanical Engineers, 103  
 Analytical chemistry, courses in, 287, 288, 289  
 Anatomy  
   comparative, course in, 240  
   courses in, 239, 240, 272  
   dental, courses in, 240  
   microscopic, courses in, 218  
   plant, course in, 218  
   physiological, course in, 397  
   regional and systematic, courses in, 219, 240  
   topographical, courses in, 219  
 Anatomy, histology, embryology, department, 218  
   faculty, 218  
   courses, 218  
 Andrews, Prof. W. E., gift to herbarium, 63  
 Anesthetics, course in, 231  
 Angiosperms, morphology of, courses in, 279  
 Anglo Saxon  
   course in, 319  
   poetry, 320  
 Animal chemistry, courses in, 293  
 Animal husbandry, 161  
   buildings, 161  
   cattle feeding plant, 55  
   courses in, 255  
   description of department, 161  
   extension specialist, 426  
   faculty, 259  
   lectures, 99  
   pathology laboratory, 56  
 Animal nutrition, courses in, 260, 263, 264  
 Animals, farm  
   anatomy and physiology, courses in, 263  
   diseases, 263  
 Anubis, 104  
 Apiculture, course in, 327  
 Applied mechanics, laboratory, 54  
 Appointments  
   graduates', committee on, 41  
   teachers', committee on, 197  
 Archeology and Art, Classical Museum of, 62  
 Architectural Club, 103  
 Architectural construction, courses in, 267  
 Architectural drawing, courses in, 265, 266, 267  
 Architectural engineering  
   courses in, 267, 268  
   curriculum, 152  
   inspection trip, 268  
 Architectural graphics, courses in, 267  
 Architectural history, courses in, 267  
 Architecture  
   American Academy Prize, 94  
   American Institute of Architects, Medal, 94  
   courses, 265  
   curriculum, 151  
   description of department, 143  
   domestic, courses in, 266  
   equipment, 144  
   exhibitions, 96  
   faculty, 265  
   history of, courses in, 265  
   home, courses in, 343  
   Plym Fellowship, 94  
   Ricker Library, 62  
   Scarab Medal, 94  
   Societies, 103  
   theory of, courses in, 267  
 Argumentation, course in, 324  
 Arithmetic, commercial, for admission, 84  
 Armory, 57  
 Arnold, Matthew, course in, 319  
 Aron Collection, 61  
 Art and design  
   courses in, 269  
   exhibits, 96  
   faculty, 269  
 Art Collection, 62  
 Art, elementary, courses in, 270  
 Arthurian tradition courses in, 319  
 Artillery, courses in, 374  
 Artillery stable, 57  
 Asphalt, tar, and oil residues, course in, 291  
 Assaying, course in, 291  
 Assistant dean of foreign students, 14  
 Assistants  
   graduate, list of, 31  
   list of, 27  
   military science, list of, 32  
   student, list of, 31  
 Associate professors, list of, 20  
 Associates, list of, 23  
 Association of Engineering Societies, 101  
 Associations, societies, and clubs, 101  
 Assyrian history, course in, 340  
 Astronomical observatory, 53  
 Astronomy  
   admission, for, 84  
   courses in, 270  
   faculty, 270  
 Athenian Literary Society, 102  
 Athletic coaching  
   admission, 72  
   courses in, 271  
   curriculum in, 192  
   faculty, 271  
 Athletics, committee on, 41  
 Auditorium, 58  
 Automorphic functions, course in, 363  
 Averages and investments, course in, 361  
 Aviation, courses in, 377  
**Baccalaureate degrees, conferred, 1920, 569**  
 Bachelors' degrees, 91  
 Bachelor of arts degree  
   requirements for, 119  
   with honors, 92  
 Bacteriology  
   courses in, 304  
   dairy, courses, 304  
   dental, course in, 242  
   faculty, 274  
   literature, courses in, 305  
   medical, course in, 227  
   pathological, courses in, 275  
 Bahai group, 104  
 Band, military, 104, 201  
   music, courses in, 385  
 Banking  
   courses, 307, 310  
   curriculum, 136  
 Bankruptcy, course in, 356  
 Barlow-Smith, Constance, Collection, 62  
 Baseball, course in, 273, 389  
 Basketball, courses in, 373, 389  
 Beef Cattle Building, 261  
 Beef production, courses in, 261  
 Beneficiary aid, 110  
 Benefit fund, hospital, committee on, 41  
 Beta Alpha Psi, 103  
 Beta Delta Sigma, 104  
 Beta Gamma Sigma, 103  
 Beta Theta Pi, 104  
 Bible, literary study of, course in, 318  
 Bibliography, courses in, 357, 358  
 Biddle loan fund, 112  
 Bills and notes, course in, 335  
 Biology, courses in, 256, 257  
 Board and Rooms, 115  
 Board of Examiners in Accountancy, 443  
 Board of Trustees, 10  
   committees, 10  
   officers, 10  
   reorganizations of, 47  
 Boards, advisory, 11  
 Bolter, Andreas, gift to collection, 64  
 Bookkeeping  
   admission, 84  
   courses in, 281

- Books  
   number and distribution, 61  
   special collections, 62  
 Books and printing, history of, course in, 358  
 Books, selection of, courses in, 358, 359  
 Botanical Club, 103  
 Botanical literature, courses in, 279  
 Botany  
   for admission, 84  
   Annex, 52  
   courses in, 276  
   club, 103  
   faculty, 276  
   herbarium, 63  
   history, course in, 279  
   literature, course in, 279  
   major and minors in, 276  
 Board and rooms, cost, 115  
 Boxing, courses in, 271, 389  
 Breeding, stock, courses in, 261  
 Breeds of live stock, history of, course in, 262  
 Brendel, Dr. F., gift to herbarium, 63  
 Bridge design, courses in, 298  
 Bridge engineering, course in, 299  
 Briefing, course in, 355  
 Bronze medals, 95  
 Browning, course in, 318, 321  
 Bryan Prize, 94  
 Bryophytes  
   morphology of, course in, 277  
   taxonomy and morphology of, course in, 278  
 Building construction, course in, 299  
 Buildings  
   Chicago departments, 60  
   sanitation of, course in, 267, 268  
   Urbana departments, 52  
 Bureau of Educational Research, 196  
 Bureau of Mines, United States, staff, 444  
 Burrill, Prof. T. J.  
   acting regent, 48  
   gift to herbarium, 62  
 Bushnell Guild, 104, 262  
 Business administration  
   courses, 281, 282  
   curriculum established, 49  
   curriculums, 135  
 Business law  
   courses, 282  
   faculty, 280  
   for admission, 84  
 Business office, 14  
 Business operation superintendent, office, 13  
 Business organization and operation  
   courses, 280, 281  
   faculty, 280  
 Business writing, course in, 322, 323  
 Calculus, courses in, 361, 362, 365  
 Calendar, 1920-21-22, 4  
   general, 4  
   University, 5  
 Calisthenics, courses in, 274, 389  
 Campus and environs, map of, front insert  
 Carr Fellowship in Chemistry, 181  
 Carriers, course in, 355  
 Casad, Amanda K., collection, 62  
 Catalog, committee on, 41  
 Cataloging, course in, 357  
 Cattle feeding building, 55  
 Catullus, courses in, 301  
 Cavalry, courses in, 374  
 Celtic Club, 103  
 Cement  
   courses in 283  
   laboratory, 297  
 Ceramic bodies, course in, 283  
 Ceramic construction, courses in, 283  
 Ceramic engineering, 145  
   advisory board, 11  
   building, 54  
   courses in, 282, 283  
   curriculum in, 152  
   club, 103  
   description of department, 145  
   extension work, 425  
   equipment, 145  
   faculty, 282  
   inspection trip, 284  
   kiln house, 54  
   scholarships, 105  
   short course, 425  
   society, American, 103  
   societies, 103  
 Cercle Francais, 103  
 Certificate, admission by, 75  
 Change fee, 113  
 Chamber of commerce, junior, 103  
 Champaign, 45  
 Charities, course in, 411  
 Chase, Mrs. Agnes, gift to herbarium, 63  
 Chaucer, courses in, 319  
 Cheese making, courses in, 304  
 Chemical Club, 103  
 Chemical engineering  
   admission, 72  
   curriculum in, 129  
 Chemistry  
   admission, 72  
   analytical, courses in, 287, 288, 289, 290, 292, 294  
   295  
   courses, 287  
   dairy, courses in, 305  
   dental, course in, 240  
   electro-, courses in, 290, 292  
   faculty, 285  
   fellowship, Carr, 181  
   history of, course in, 291  
   industrial, course in, 293  
   inorganic, courses in, 240, 241, 287  
   inspection trip, 291  
   laboratory, 52, 290, 292, 294  
   library, 62  
   major and minors, 286  
   organic, courses in, 229, 241, 288, 289, 292, 293,  
   294  
   pharmaceutical  
     courses, 289  
     curriculum, 132  
   physical, courses in, 290, 292  
   physiological, courses in, 228, 229, 241, 289, 293,  
   295  
   silicon, courses in, 285  
   society, American, 103  
   societies, 103  
   water, courses in, 288  
 Chi Beta, 104  
 Chicago Teacher-Training Center, 198  
 Child feeding, extension specialist, 428  
 Chinese Students' Club, 104  
 Chi Omega, 104  
   Prize, 95  
 Chi Phi, 104  
 Chi, Psi, 104  
 Choral and Orchestral Society, 104, 188  
 Christian Associations, 102  
 Christian Science Society, 104  
 Cicero, courses in, 301, 302  
 Circulo Spanol, 103  
 City milk supply, course in, 303  
 City planning, courses in, 350  
 Civic and commercial secretaries, curriculum, 136  
 Civics, for admission, 84  
 Civil engineering  
   collections, 65  
   courses, 295  
   curriculum in, 153  
   description of department, 145  
   faculty, 295  
   inspection trip, 299  
   society, 108  
 Civil war, history of, courses in, 238  
 Classical archeology and art, museum of, 62  
 Classical Club, 103  
 Classics  
   collections, 62  
   courses, 299  
   faculty, 299  
   library, 62  
   major and minors, 300  
 Classification of books, course in, 357  
 Class of 1895 Loan Fund, 110  
 Clay industries, technology, courses in, 285  
 Clays, winning and preparation of, course in, 283

- Clinical facilities, College of Medicine, 212  
 Clinics in College of Medicine, 212  
 Clothing  
   courses in, 344, 346  
   extension specialist, 428  
 Clubs and societies  
   auxiliary to courses of study, 103  
   departmental, 103  
   list of, 101  
 Coaching, athletic, 271, 389  
 Coal  
   and ores, preparation of, courses in, 379  
   composition and classification, course in, 241  
   mining laboratory, course in, 380  
   plant design, course in, 380  
   preparation of, course in, 379  
 Coal Investigations, Cooperative, staff, 444  
 Coccidae, classification of, course in, 328  
 Collections, 62  
   (See also under separate colleges and courses)  
 College Entrance Examination Board, 74  
 College publications, collection of, 61  
 Colleges and schools, 119  
   list of, 66  
   officers, 15  
 Combined courses  
   arts and law, 125  
   arts and medicine, 127  
   commerce and law, 142  
 Commerce and Business Administration, College of  
   administrative officers, 15  
   admission, 72  
   building, 53  
   collections, 64  
   clubs, 103  
   curriculums, 67, 135  
   accountancy, 137  
   banking, 136  
   commerce and law, 142  
   commercial and civic secretaries, 136  
   commercial teachers, 139  
   foreign commerce, 139  
   general business, 135  
   industrial administration, 140  
   insurance, 137  
   railway administration, 138  
   railway transportation, 138  
   established, 50  
   fees, 113  
   graduation, requirements for, 134  
   lectures, 98  
   organization and purpose, 134  
   reading room, 62  
   special students, 134  
   technical courses, 141  
 Commerce and law, curriculum in, 142  
 Commerce courses, 308  
 Commercial and civic secretaries, curriculum for, 136  
 Commercial arithmetic, for admission, 84  
 Commercial Club, 103  
 Commercial geography, for admission, 84  
 Commercial law  
   courses, 282  
   faculty, 280  
 Commercial teachers, curriculum for, 139  
 Comitatus, 104  
 Committees  
   Board of Trustees, 10  
   Council, 41  
   faculty, 41  
   Senate, 41  
 Common law pleading, course in, 355  
 Comparative philology  
   courses, 302  
   faculty, 302  
 Competitions and honors, 92  
 Composition, advance course in, 321, 322  
 Composition, English, for admission, 85  
 Comptroller, office of, 14  
 Concert, course, University, 96  
 Concerts, orchestral, 96  
 Concordia, 104  
 Concrete courses in, 297, 298, 299  
 Conflict of laws, course in, 356  
 Constitutional law, courses in, 399  
 Contents, table of, 3  
 Contests and prizes, military, 95  
 Contracts and specifications, engineering, courses in, 297  
 Contracts, courses in, 355, 356  
 Conveyancy, courses in, 356  
 Convocations, 96  
 Cookery, courses in, 345  
 Cooperative investigation of Problems of Illinois  
   Mineral Industries, 444  
 Copy-reading and head-writing, courses in, 323  
 Cormophytes, morphology of, course in, 277, 278  
 Corning glass works fellowships, 182  
 Corngrowers' and stockmen's convention lectures, 99  
 Corporation management and finance, courses in, 308  
 Corporations  
   courses in, 355, 356  
   private, course in, 355  
 Cosmopolitan Club, 104  
 Costume design, courses in, 346  
 Council of Administration, 13  
   committees, 41  
 Council, student, 101  
 Country Life Club, 104  
 Country newspaper, making of, courses in, 324  
 County farm advisors, list of, 426, 428  
 County scholarships, 105  
 Courses, description of, 253  
 Court, practise, College of Law, 209  
 C.P.A. problems, courses in, 281  
 Creamery management, courses in, 304  
 Criminal law, course in, 355  
 Criminology, courses in, 230, 412, 41  
 Crop production, course in, 256  
 Crops, commercial, course in, 347  
 Crystallography, course in, 332  
 Curators, museums, list of, 15  
 Curriculums, 67  
 Cytology, courses in, 218  
 Dairy barns, 56  
 Dairy cattle, course in, 303  
 Dairy chemistry, course in, 305  
 Dairy department, scholarship, 108  
 Dairy farming, course in, 305  
 Dairy husbandry  
   advisory board, 11  
   courses, 303  
   description of department, 162  
   extension specialists, 426  
   faculty, 303  
   scope of work, 162  
 Damages, course in, 355  
 Dames' Club, 104  
 Dancing, esthetic and interpretative, courses in, 274, 389, 390  
 Dean of men, office, 14  
 Dean of women, office, 14  
 Deans and directors, duties of, 60  
 Debate, course in, 325  
 Debating and oratory, honors and competitions in, 93  
 Decoration, home, course in, 343  
 Degrees  
   authority to confer, 47  
   bachelors, 91  
   conferred four times a year, 90  
   graduate, 175  
   list of, 91  
 Degrees, requirements for, 90  
   A.B., 91  
   with honors, 92  
   A.E., 177  
   A.M., 175  
   B.L.S., 91  
   B.Mus., 91  
   B.S., 91  
   C.E., 177  
   D.D.S., 91  
   E.E., 177  
   E.M., 177  
   J.D., 91, 209  
   L.L.B., 91, 209  
   M.Arch., 177  
   M.D., 91  
   M.E., 177  
   M.S., 175  
   Ph.C., 91, 248

- Ph. D., 178  
 Ph. G., 91, 248  
 Ph. M., 248  
 Delta Delta Delta, 104  
 Delta Gamma, 104  
 Delta Kappa Epsilon, 104  
 Delta Phi, 104  
 Delta Pi, 104  
 Delta Sigma Phi, 104  
 Delta Sigma Rho, 103  
 Delta Tau Delta, 104  
 Delta Upsilon, 104  
 Dental jurisprudence, courses in, 246  
 Dentistry, College of  
   administrative officers, 16  
   admission to, 78, 236  
   advanced standing, 237  
   building, 60  
   courses, 239  
   curriculum, 68, 237  
   summary of, 247  
   degrees conferred, 1920, 581  
   discontinued, 50  
   established, 49  
   faculty, 38  
   fees, 114  
   graduation, requirements for, 237  
   graduation with thesis, 237  
   honorary research assistant, 238  
   infirmary, 236  
   laboratory fees, 114  
   library, 236  
   license for practise, 238  
   location, 236  
   officers, 16  
   reopened, 50  
   students, list of, 561  
 Dentistry  
   operative, courses in, 243  
   prosthetic, courses in, 244  
 Departmental honorary societies, 103  
 Departments and courses, summary of, 66  
 Dermatology, courses in, 220  
 Description of courses, 253  
   explanation of, 253  
 Design  
   architectural, courses in, 267  
   coal plant, courses in, 380  
   courses in, 266, 269  
   dress, courses in, 344, 345, 346  
   garden, courses in, 349  
   hydraulic, course in, 371  
   landscape, courses in, 348  
   locomotive, courses in, 406  
   mill and smelter, courses in, 380  
   ore plant, courses in, 380  
   planting, courses in, 349  
 Deutsche Verein, 103  
 Diagnosis, physical, course in, 222  
 Dietetics, courses in, 343  
 Diploma fee, 113  
 Diplomacy, American, courses in, 399  
 Directors and deans, duties of, 66  
 Discipline, committees on, 41  
 Dispensary, College of Medicine, 212  
 Dittenberger, Collection, 61  
 Doctor of philosophy  
   degree of, 178  
   degrees conferred, 1920, 581  
 Domestic relations, course in, 355  
 Domestic Science, for admission, 84  
 Drafting, courses in, 306  
 Drainage, course in, 256, 258, 298, 299  
 Drama  
   English, course in, 318, 319  
   European, courses in, 321  
   French, courses in, 408, 410  
   German, courses in, 334  
   Spanish, courses in, 409, 411  
 Dramatic composition, courses in, 322  
 Draper, Dr. A. S., President, 48  
 Drawing  
   architectural, courses in, 265, 266, 267  
   for admission, 85  
   freehand, courses in, 265, 266, 269  
   general engineering  
     courses in, 306  
     faculty, 305  
     technical, courses in, 239  
 Dress design, courses in, 244, 245  
 Du Pont, fellowships, 182  
 Dynamics, course in, 395  
 Dziatzko collection, library of economy, 61  
 Earth and rock excavation, course in, 378  
 Ear training, courses in, 385  
 Ecology  
   animal, courses in, 415, 416, 417  
   plant, courses in, 277, 278, 279  
 Economic entomology, curriculum in, 128  
 Economic history, U. S., course in, 307, 308  
 Economic resources, course in, 307  
 Economics  
   club, 103  
   courses in, 306, 307  
   faculty, 306  
   for admission, 85  
   library, 62  
   major and minors, 306  
 Economic theory, courses in, 307  
 Editorial practise, course in, 323, 324  
 Education  
   building, 53  
   courses, 310  
   faculty, 310  
   library, 62  
   major and minors, 310  
 Education, College of  
   administrative officers, 15  
   admission to, 72, 76, 189  
   admission, requirements for, 189  
   appointment of teachers, committee, 197  
   building, 53  
   certification of teachers, 190  
   certification of superintendents and principals, 197  
   Chicago Teacher-Training Center, 198  
   curriculums, 67  
     agricultural education, 190  
     athletic coaching, 192  
     home economics education, 190  
     industrial education, 193  
   established, 50  
   graduate work, 196  
   graduation, requirements for, 189  
   general statement, 189  
   North Central Association, requirements of, 198  
   office, 15  
   publications, 196  
   research bureau, 196  
   society, 103  
 Educational administration, courses, 312, 313  
 Electrical engineering, 145  
   collection, 65  
   courses, 314  
   curriculum, 154  
   description of department, 145  
   equipment, 146  
   faculty, 313  
   inspection trip, 315  
   laboratory, 54  
   lectures, 98  
   railway, courses in, 405, 406  
   society, 103  
 Electric currents and apparatus, course in, 314  
 Electricity and magnetism, 392  
 Electricity and measurements, courses in, 392, 393, 394, 396  
 Electric railways, courses in, 405, 406  
 Electrochemistry, courses in, 292, 294  
 Electrodynamics, course in, 395  
 Electron theory, courses in, 394  
 Embryology  
   courses in, 218, 219, 239, 240  
   dental, courses in, 239  
   vertebrate, courses in, 415  
 Enamels, courses in, 284  
 Engineering  
   advance degrees in, 177  
   architectural, courses in, 267, 268  
   council, 103  
   courses in, 316  
   courses credited in College of Liberal Arts and Sciences, 121

- foundation and national research council co-operative funds for investigation of the fatigue of metals, 150  
 functions, courses in, 298  
 library, 62  
 professional degrees, conferred, 1920, 584  
 public service, courses in, 298  
**Engineering, College of**  
   advisory board, 11  
   administrative officers, 15  
   admission, 73, 74  
   assemblies and lectures, 97  
   buildings, 53  
   collections, 63  
   clubs, 103  
   curriculums, 67, 150  
     architecture, 151  
     architectural engineering, 152  
     ceramic engineering, 152  
     civil engineering, 153  
     electrical engineering, 154  
     mechanical engineering, 154  
     mining engineering, 155  
     municipal and sanitary engineering, 156  
     physics, general engineering, 157  
     railway electrical engineering, 158  
     railway engineering, 158  
     railway civil engineering, 158  
     railway mechanical engineering, 159  
   degrees, 150  
   degrees conferred, 1920, 569  
   departments, 143  
   electives, 150  
   fees and expenses, 113  
   general statement, 143  
   inspection trips, 150  
   lectures to freshmen, 150  
   library, 62  
   museum and collections, 65  
   office, 15  
   railway industries, of Illinois, advisory board, 11  
   rhetoric, prerequisite of junior standing, 151  
   scholarships, 108  
   short course for metermen, 150  
   societies, 103  
   special students, 143  
   summary of courses, 67  
**Engineering Experiment Station, 49, 436**  
   established, 49  
   research graduate assistants, 182  
   staff, 436  
**Engineering Hall, 53**  
**Engineering, military, courses in, 375**  
**Engineers', American association of, 104**  
**England, history of, courses in, 337, 338, 340, 341, 342**  
**English**  
   admission, 85  
   courses in, 317  
   faculty, 316  
   library, 62  
   English composition and rhetoric, for admission, 85  
   English history, seminar in, 341  
   English language and literature, major and minors, 317  
   English Journal Club, 103  
   English literature, for admission, 85  
   English writers, course in, 318  
   Entertainments, 97  
**Entomological Survey**  
   established, 49  
   merged into Natural History Survey, 439  
**Entomology**  
   building, 53  
   collection, 64  
   courses, 327  
   economic, curriculum, 128  
   faculty, 326  
   major and minors, 326, 327  
   Entomologists' office, state, established, 49  
   Entrance requirements  
     (See admission, 68)  
   Equipment, description of, 52  
     (See also under separate colleges and subjects)  
   Equity, course in, 355  
   Essay, development of, course in, 320  
**Eta Kappa Nu, 103**  
**Ethics, course in, 387, 388**  
**European culture, museum of, 63**  
**Europe, history of, courses in, 337, 338, 341**  
**Evidence, course in, 355**  
**Evolution, courses in, 415**  
**Examination fee, 113**  
**Examinations**  
   admission by, 74  
   College Entrance Board, 74  
   entrance, 74  
   New York regents, 75  
**Examiners in Accountancy, Board of, 443**  
**Exchange, course in, 307**  
**Exercises and lectures, 95**  
**Exhibitions, 96**  
**Expenses (Urbana)**  
   and fees, 113  
   average annual, 115  
   School of Pharmacy, 250  
**Experiment stations**  
   agricultural, 433  
   engineering, 436  
   mineral industries, 444  
**Exposition, courses in, 322, 323**  
**Extension, University, 425**  
   agriculture, 425  
   courses in, 254  
   ceramic engineering, 425  
   cooperative service, 425  
   home economics, 428  
**Faculty, 17**  
   committees of, 41  
   duties and composition of, 66  
     (See officers of instruction)  
**Farm**  
   accounting, course in, 280  
   advisers, 426  
   buildings, course in, 256  
   crops, courses in, 255, 256, 257, 258  
   mechanics, courses in, 257, 258  
**Farm concrete construction, course in, 258**  
**Farm crops, advisory board, 12**  
**Farm House, 103**  
**Farm Mechanics Building, 55**  
**Farm organization and management, 162**  
   courses in, 329  
   curriculum in, 165  
   extension specialists, 426  
   faculty, 329  
**Fatigue of metals, investigation of, 150**  
**Faunistic zoology, course in, 417**  
**Federal endowment, 47**  
**Feeding, animal, courses in, 260**  
**Fees**  
   and expenses, College of Medicine, 214  
   change, 113  
   diploma, 113  
   examination, 113  
   general, 113  
   incidental, 113  
   late registration, 113  
   laboratory, 113  
   listeners', 113  
   matriculation, 113  
   music, 113  
   School of Pharmacy, 250  
   summer session, 204  
   tuition, 113  
**Fellows, graduate, list of, 585**  
**Fellowships**  
   Carr, in chemistry, 181  
   graduate, 181  
**Fencing, course in, 389**  
**Fertilizers and soils, course in, 257**  
**Final honors, 92**  
**Finance**  
   courses in, 307, 308, 309  
   educational, course in, 313  
**Fine arts, courses in, 329**  
**Fine arts, history of, courses in, 269, 270**  
**Fire proof construction, courses in, 268**  
**First degrees, list of, 91**  
**Flora, local, course in, 277**  
**Floricultural club, 104**

- Floriculture**  
 advisory board, 12  
 buildings, 56  
 courses in, 348, 349, 332  
 curriculums in, 166  
 greenhouse, description of, 56  
 Society, 103  
**Folk dancing, courses in, 390**  
**Food, courses in, 342, 343**  
**Food analysis, course in, 289**  
**Food, extension specialist, 428**  
**Football, courses in, 272, 273, 274, 339**  
**Foreign commerce**  
 courses in, 308, 309  
 curriculum in, 139  
**Foreign students**  
 admission of, 76  
 assistant, dean of, 14  
**Foreign trade club, 103**  
**Forestry, course in, 348**  
**Forge work, courses in, 368**  
**Foundry work, courses in, 368**  
**Fraternities, societies, and clubs, 104**  
**Freight shipment, course in, 413**  
**French**  
 courses in, 407, 410  
 Club, 103  
 for admission, 86  
 major and minors, 407  
**Freshman honors, 93**  
**Freshman-sophomore debate, 93**  
**Fruit diseases, courses in, 351**  
**Fuels**  
 technology, course in, 293  
 utilization of, course in, 379  
**Funds, loan, 110**  
 committee on, 41  
**Fungi, courses in, 278, 279**  
**Furniture construction, course in, 354**  
**Games, courses in, 390**  
**Games, group, courses in, 271**  
**Gamma Alpha, 103**  
**Gamma Epsilon Pi, 103**  
**Gamma Phi Beta, 104**  
**Gamma Pi Alpha, 103**  
**Gamma Sigma Kappa, 104**  
**Garden design, courses in, 349**  
**Gardening, vegetable, course in, 347**  
**Garment making, courses in, 345**  
**Gases, fuel and flue, courses in, 290**  
**Gas and fuel analysis, courses in, 289, 295**  
**Gas engineering, course in, 291, 293**  
**Genetics**  
 building, 56  
 courses in, 263, 264  
**Geography**  
 collections, 64  
 commercial, for admission, 84  
 courses in, 332, 416  
 faculty, 330  
 major and minors, 332  
 physical, for admission, 88  
**Geological Journal Club, 103**  
**Geological Survey, State, 441**  
 staff, 441  
**Geology**  
 collections, 64  
 courses, 330  
 faculty, 330  
 for admission, 86  
 journal club, 103  
 major and minors, 330  
**Geometry**  
 courses in, 306, 360, 361, 364, 365  
 for admission, 86  
**German**  
 courses in, 333  
 faculty, 333  
 for admission, 87  
 major and minors, 333  
**Glass, course in, 283, 285**  
**Glass blowing, course in, 291**  
**Glazes, course in, 283**  
**Glee club, woman's, 104**  
**Goethe, courses in, 334, 335**  
**Gold Medal, University, 95**
- Government**  
 American, courses in, 398  
 American national, courses in, 401  
 European, courses in, 400, 401  
 municipal, courses in, 399, 401  
 of Illinois, courses in, 400, 401  
 state and local, courses in, 398  
 University, 66  
**Graduate assistants, list of, 31**  
**Graduate Club, 182**  
 Loan Club, 110  
**Graduate in Pharmacy, degrees of, 248**  
**Graduate School**  
 administrative officer, 15  
 admission to, 79, 191  
 club, 182  
 courses, summary of, 67  
 degrees conferred, 581  
 doctor of philosophy, degree of, 178  
 engineering experiment station, 182  
 established, 49  
 executive faculty, 171  
 fellows and scholars, 1920, 585  
 fellowships, 181  
 history of, 48, 50, 171  
 Illinois Historical Survey, 183  
 marine biological laboratories, 176  
 masters' degrees, 175  
 organization, 171  
 professional degrees in engineering, 177  
 publications, 422  
 registration, 173  
 research fellowships in, 182  
 scholarships, 181  
 student, list, 445  
 summary of courses, 67  
 Summer Session courses, 183, 204  
 theses, 176, 180  
 Graduates, appointment, committee on, 41  
**Graduate scientific society, 103**  
**Graduate work in summer session, 183, 204**  
**Graduation and first degrees, 90**  
**Graduation, requirements for**  
 agriculture, 160  
 dentistry, 237  
 education, 189  
 law, 209  
 liberal arts and sciences, 119  
 medicine, 216  
 music, 187  
 pharmacy, 248  
**Grain standardization, courses in, 237**  
**Graphic statics, courses in, 266, 268, 298**  
**Greece, history of, course in, 337**  
**Greek**  
 for admission, 87  
 courses, 300  
 faculty, 299  
 major and minors, 299  
**Greek letter societies, 104**  
**Greek life and history, courses in, 300**  
**Greek literature, courses in, 300**  
**Greene, D. C., collection, 62**  
**Greenhouse fertilizers, course in, 351**  
**Greenhouses**  
 agronomy, 55  
 floriculture, 56  
 horticulture, 56  
 vegetable and plant breeding, 56  
**Gregorian Literary Society, 102**  
**Grober collection, 61**  
**Gregory, Dr. J. M., regent, 46**  
**Grounds and buildings, Urbana, 52**  
**Gudrun, course in, 336**  
**Guild Memorial Prize, 94**  
**Gymnasium**  
 Annex, 58  
 men's, 58  
 practise, course in, 388, 389  
 women's, 58  
 (See physical education)  
**Gymnastics, courses in, 271, 388**  
**Gymnosperms, morphology of, course in, 279**  
**Gynecology, courses in, 224, 226**  
**Hazelton Prize Medal, 95**  
**Health, extension specialist, 428**

- Health officers, 14  
 Heat and power plant, 59  
 Heat, courses in, 392, 396  
 Heating and ventilation, courses in, 367, 392, 394  
 Hebrew, course in, 386  
 Hebrew history, course in, 338  
 Heredity and evolution, course in, 278, 415  
 Hertzer collection, 64  
 Hexapoeia, 103  
 Heyne collection, 61  
 Hibbard, W. G., gift to museum, 62, 63  
 High school education, courses in, 312, 313  
 High school Visitor, office, 14  
 Highway administration, course in, 298  
 Highway design, course in, 298  
 Highway engineering, courses in, 298, 299  
 Highway laboratory, 54  
 Histogenesis, courses in, 219  
 Histology  
   courses in, 218, 239, 240, 278  
   dental, courses in, 239  
   plant, course in, 277  
 Historiography, courses in, 240  
 History  
   club, 103  
   courses in, 337  
   economic, of U. S., courses in, 307  
   faculty, 337  
   financial, of U. S., course in, 307  
   for admission, 87  
   Library, 62  
   major and minors, 337  
   University, 46  
 History of fine arts, courses in, 269  
 History, architectural, courses in, 265, 267  
 History, Latin, course in, 301  
 Home advisers, lectures before conference of, 99  
 Home architecture, course in, 343  
 Home bureaus, 430  
 Homecoming, committee on, 41  
 Home decoration, courses in, 343  
 Home economics  
   agriculture, in college of, 163  
   courses in, 342  
   curriculum in, 73, 167  
   departmental specialists, 428  
   description of department, 163  
   education, curriculum in, 190  
   extension, 428  
   faculty, 342  
   Liberal Arts and Sciences, in College of, 125  
   major and minors, 342  
   scholarships, 106  
   societies, 103  
   teachers of, curriculum for, 72, 126  
 Home management, extension specialist, 428  
 Homer, course in, 301  
 Honor commission, 101  
 Honorary societies, 102  
 Honors  
   debating and oratory, 93  
   final, 92  
   list of, 92  
   military, 201  
   preliminary, 92  
   special, 92  
 Honors and competitions, 92  
 Hoof and Horn Club, 104  
 Hopkins, C. G., memorial exercises for, 100  
 Horace, course in, 301  
 Horses  
   breeding, feeding, and management of, course in, 240  
   market classes of, course in, 260  
 Horticulture  
   advisory board, 12  
   buildings, 56  
   club, 104  
   courses, 347  
   department lectures, 99  
   description of department, 163  
   exhibition, 99  
   extension specialist, 426  
   faculty, 347  
   greenhouses, 56  
 Hospital clinics, College of Medicine, 212  
 Hospital facilities, College of Medicine, 213  
 Hospital fund, students, 141  
 Hospital, isolation building, 59  
 House furnishing, course in, 346  
 Household administration, curriculum in, 72  
 Household Science Club, 104  
 Hydraulics, courses in, 370, 372, 381  
 Hydro-economics, course in, 298  
 Hydrology, course, 296  
 Hygiene  
   courses in, 272, 388  
   department of, 14  
   faculty, 352  
   social, course in, 230  
 Hygiene and public health  
   administrative officers, 14  
   faculty, 352  
   courses, 352  
 Ibsen, Henrik, course in, 326  
 Ibsen's social dramas, course in, 326  
 Ice-cream making, course in, 304  
 Illinois Bar Examination, 210  
 Illinois, government of, course in, 399  
 Illinois Historical Survey, 183  
 Illinois Union, 101, 104  
 Ilus, 104  
 Illinois procedure, course in, 356  
 Illioli Literary Society, 102  
 I. M. I. Debating League, 93  
 Incidental fee, 113  
 Income tax procedure, course in, 281  
 Incorporation of University, 46  
 Industrial administration, curriculum in, 140  
 Industrial chemistry, course in, 290  
 Industrial consolidation, courses in, 308, 309  
 Industrial education  
   admission, 72  
   courses, 353  
   curriculum in, 193  
   faculty, 353  
 Industrial problems, course in, 399  
 Indo-European languages, comparative philology of, courses in, 303  
 Infantry, courses in, 373  
 Infirmary, College of Dentistry, 236  
 Information Office, 14  
 Inorganic chemistry, courses in, 240, 241, 287  
 Insects and diseases, course in, 328  
 Insects, courses in, 327, 328, 329  
 Inspection trip  
   architectural, 267  
   architectural engineering, 268  
   ceramic engineering, 284  
   chemical, 291  
   civil engineering, 299  
   electrical engineering, 315  
   mechanical engineering, 369  
   mining engineering, 381  
   municipal and sanitary engineering, 381  
   railway engineering, 405  
 Instruction, officers of, 17  
 Instructors, list of, 25  
 Insurance  
   courses in, 307, 356  
   curriculum in, 137  
 Interfraternity organizations, 104  
 International law  
   course in, 399  
 Interscholastic oratorical prize, 93  
 Inter-society declamation contest, 93  
 Invariants and higher plane curves, course in, 364  
 Invertebrates, morphology and taxonomy, course in, 418  
 Investments, courses in, 309  
 Ionian Literary Society, 102  
 Iota Sigma Pi, 103  
 Irrigation and drainage, course in, 299  
 Isolation hospital, 59  
 Italian, courses in, 408  
 James, Carl Martin, collection, 62  
 James, E. J., president, 49  
 James, Margaret L., loan fund, 117  
 Japanese Students' Club, 104  
 Jamesonian Literary Society, 102  
 Journalism  
   admission, 72, 123



- courses in, 323
- curriculum in, 124
- societies, 103
- Jurisprudence**
  - dental, course in, 246
  - medical, course in, 230
  - principles of, course in, 399
- Juvenal, course in, 301
- Kappa Alpha Theta**, 102
- Kappa Delta Pi**, 103
- Kappa Kappa Gamma**, 104
- Kappa Pi**, 104
- Kappa Sigma**, 104
- Karsten Collection, 61
- Keramos, 103
- Ku Klux Klan, 104
- Laboratories**, 63
  - first opened, 46
- Laboratory fees, 113
- Labor problems, course in, 308, 412
- Lambda Chi Alpha, 104
- Lambda Xi, 103
- Landscape architecture society, 103
- Landscape construction, course in, 349
- Landscape design, courses in, 348
- Land Grant, Morrill, 46
- Landscape Gardeners' Club, 104
- Landscape gardening, 348
  - courses in, 348, 349, 350
  - curriculum in, 169
  - history of, 350
  - office practise of, course in, 350
- Landscape gardening association, woman's, 103
- Laryngology, courses in, 220
- Late registration fee, 113
- Latin**
  - courses in, 301
  - faculty, 299
  - for admission, 87
  - major and minors, 299
- Latin-America, history of, courses in, 339
- Latin-American Club, 104
- Law, business courses, 282
- Law club, 104
- Law and commerce, curriculum, 142
- Law, College of**
  - administrative officer, 15
  - admission to, 77
  - advance standing in, 208
  - advisory board, 11
  - building, 57
  - courses, 355
  - curriculums, 68, 207
  - preliminary, 125
  - degrees, 209
  - entrance requirements, 207
  - established, 48
  - faculty, 354
  - fees and expenses, 113
  - graduation, requirements for, 209
  - history, 48
  - Illinois bar examinations, 210
  - library, 62, 209
  - practise court, 209
  - privileges of students, 211
  - prizes, 211
  - scholarship prizes, 211
  - six-year combined courses, 209
  - societies, 104
  - special students, 207
  - state examination, 210
  - thesis, 209
- Law, constitutional, courses in, 399
  - international, course in, 399
- Law of the Press, course, 324
- Lectures and general exercises, 95
- Liberal Arts and Sciences, College of**
  - administrative officers, 15
  - admission, 72, 74
  - arrangement of courses, 122
  - buildings and grounds, 52
  - clubs, 103
  - collections, 62
  - curriculums, 67
    - chemical engineering, 129
    - chemistry, 129
    - economic entomology, 128
    - home economics, 126
    - household administration, 127
    - journalism, 123
    - law, preliminary to, 125
    - pharmaceutical chemistry, 132
    - medicine, preparatory, 127
    - teachers of home economics, 126
  - electives, 121
  - fees and expenses, 113
  - graduation, requirements for, 119
  - laboratories, 68
  - lectures, 97
  - majors and minors, 120
  - museums and collections, 62
  - organization and purpose, 50, 119
  - special students, 119
  - summary of courses, 67
- Libraries**, 61
  - departmental, 62
  - descriptions, 61
  - history of, course in, 358
  - (See also under separate colleges and schools)
- Library**
  - administrative officers of, 33
  - building, 58
  - club, 104, 186
  - committee, 41
  - staff, 33
- Library administration and current library literature**, course in, 358
- Library, College of Dentistry**, 236
- Library facilities, College of Medicine**, 213
- Library, law**, 209
- Library School**
  - administrative officers, 15
  - admission, 77
  - advanced standing, 185
  - alumni loan fund, 186
  - club, 186
  - collections and museums, 65
  - courses, 357
  - curriculums, 67, 184, 185
    - preliminary, 184
  - degree of B. L. S., 91
  - degrees conferred, 1920, 580
  - entrance requirements, 184
  - established, 48
  - faculty, 356
  - fees and expenses, 113
  - field work, 185
  - fund, 112
  - general statement, 184
  - special students, 185
  - transferred to the University, 48
- Library science**
  - courses in, 356
  - curriculum, 67
  - credited in College of L. A. & S., 122
  - lectures, 98
  - Summer Session courses, 205
- Light, courses in, 392, 393
- Lighting, courses in, 315
- Lincoln Hall, 52
- Lincoln's letters and speeches, course in, 320
- Listener's fee, 113
- Literary societies, 102
- Literature, English, for admission, 85
- Literature**
  - American, courses in, 318, 320, 321
  - English, courses in, 317
  - French, courses in, 407, 410
  - German, courses in, 335
  - Italian, courses in, 409
  - Spanish, courses in, 409
- Literature, interpretation and dramatization of**, course in, 324
- Live stock, marketing, course in, 263
- Live stock farming, systems, course in, 262
- Live stock, history of breeds of, course in, 262
- Live stock experimentation, course in, 263
- Live Stock Section of Agricultural Experiment Station, advisory board, 12
- Livy, courses in, 301
- Loan department, course in, 357

- Loan funds, 110, 186  
   class of 1895, 110  
   committee on, 41  
   graduate club, 110  
   James, Margaret L., 111  
   library school, 112  
   M'Kinley, Wm. B., 111  
   Snyder, Edward, 110  
   Strong, Henry, 111  
   woman's league, 110  
   woman's pharmacy, 111  
 Location of University, 45  
 Locomotive design, courses in, 404, 405  
 Locomotive testing laboratory, 54  
 Logic, course in, 387  
 Lunch room management, courses in, 344  
 Lyrics and ballads, German, courses in, 334  
**M'Kinley, Wm. B., Loan Fund, 111**  
**M'Whorter, collection, 64**  
 Machine design, course in, 369  
 Machine shop practise, courses in, 368, 369  
 Machinery, courses in, 366  
 Machinery, farm, courses in, 256, 257  
 Magazine in America, courses in, 319  
 Manual arts, teaching of, courses in, 354  
 Nap reading, courses in, 296  
 Manual training for admission, 87  
 Marketing live stock, course in, 263  
 Mask and Bauble, 104  
 Mason Library of Western History, 62  
 Masonry construction, course in, 297  
 Massage, course in, 390  
 Master of arts, degree of, 175  
 Master of science, degree of, 175  
 Masters' degree in engineering, 177  
 Masters of arts and sciences, degrees conferred, 1920, 581  
 Materials, strength of, courses in, 370  
 Materials, technology of, courses in, 268  
 Materia medica, courses in, 228, 245  
 Mathematical Club, 103  
 Mathematical physics, course in, 395  
 Mathematics  
   courses, 360  
   faculty, 359  
   library, 62  
 Matriculation fee, 113  
 Ma-Wan-Da, 103  
 Measurements, physical, courses in, 391  
 Meat, courses in, 261, 262  
 Mechanical engineering  
   courses, 366  
   collections, 65  
   curriculum in, 154  
   description of department, 146  
   equipment, 146  
   faculty, 366  
   inspection trip, 369  
   laboratory, 54  
   societies, 103  
 Mechanical Engineers, American Society of, 104  
 Mechanics, applied, laboratory, 54  
 Mechanics, theoretical and applied, courses in, 147, 370  
   description of department, 147  
   faculty, 369  
 Medical illustrating, course in, 219  
 Medical jurisprudence, courses in, 390  
 Medicine  
   curriculum preparatory to, 127  
   history of, course in, 224  
   internal, course in, 221  
 Medicine, College of  
   administrative officers, 16  
   admission to, 77  
   advance standing, 213  
   affiliated with the University, 48  
   bachelor of science, 216  
   buildings, 60, 212  
   clinical facilities, 212  
   collegiate year, 214  
   combined arts and medical course, 128  
   courses, 215, 218  
   curriculums, 68  
   degrees, conferred, 1920, 580  
   discontinued, 50  
   dispensary, 212  
   entrance requirements, 77  
   equipment, 60, 212  
   faculty, 34  
   fees and expenses, 114, 214  
   graduation, requirements for, 216  
   hospital clinics, 212  
   hospital facilities, 213  
   instruction, general plan of, 217  
   library facilities, 213  
   location, 212  
   optional work, 215  
   promotions, 216  
   Quine library, 213  
   registration, 214  
   re-opened, 50  
   scholarships, 215  
   special students, admission of, 213  
   students, list of, 557  
   summary of hours, 234  
 Men, dean of, 14  
 Menorah, 104  
 Men's gymnasium, 58  
 Men, physical education for, office, 14  
 Mental tests, courses in, 289, 295  
 Metabolism, problems of, courses in, 289, 295  
 Metallography, courses in, 291, 293  
 Metallurgy, courses in, 241, 242, 288, 291  
 Metal shops, 55  
 Metermen, short course for, 150  
 Microscopical technic, course in, 249  
 Midwest Debating League, 93  
 Military band, 104, 188  
 Military contests and prizes, 95  
 Military department  
   societies, 103  
   uniform deposit, 113  
   contests, 95  
   prizes, 95  
 Mineral industries  
   cooperative investigation of Illinois, 444  
   staff, 444  
 Military science, 200  
   administrative officers, 14  
   assistants in, list of, 32  
   buildings, 57  
   cavalry brigade, 200  
   commissions in state militia, 200  
   courses in, 373  
   faculty, 372  
   general statement, 200  
   office, 14  
   scholarships, 108  
 Milk production, courses in, 303, 305  
 Milk testing, course in, 303  
 Mill and smelter design, courses in, 380  
 Millinery, courses in, 345, 346  
 Mill tax, 50  
 Milton, poetry of, courses in, 319  
 Mineralogy, courses in, 330, 331  
 Mineral oils, courses in, 291  
 Mining club, 103  
 Mining engineering  
   collection, 65  
   courses in, 378  
   curriculums, 155  
   description of department, 147  
   equipment, 147  
   faculty, 378  
   laboratory, 54  
   society, 103  
 Mining inspection trip, 381  
 Modeling, course in, 269  
 Modern languages  
   courses in, 406  
   library, 62  
 Money and banking, courses in, 307, 309  
 Money market, course in, 307  
 Morphology, courses in, 415, 417  
 Morrill Land Grant, 46  
 Mortarboard, 103  
 Mortgages and recording acts, course in, 356  
 Mu Kappa Alpha, 103  
 Mules, market classes of, course in, 260  
 Municipal and sanitary engineering, 143  
   courses in, 381

- curriculum in, 156
- description of department, 148
- faculty, 381
- inspection trip, 381
- Municipal government, course in, 399
- Municipal problems, course in, 400
- Museums and collections, 62
  - Andrews, W. E., 63
  - Aron, 61
  - Barlow-Smith, Constance, 62
  - Bolter, Andreas, 64
  - Brendel, Frederick, 63
  - Burrill, T. J., 62
  - Casad, Amanda K., 62
  - Charles, B. B., 63
  - Chase, Agnes, 63
  - College publications, 61
  - Dittenberger, 61
  - Dziatkø, 61
  - Greene, D. C., 62
  - Grober, 61
  - Hertzer, 64
  - Heyne, 61
  - Hibbard, W. B., 62, 63
  - James, C. M., 62
  - Karsten, 61
  - McWhorter, 64
  - Philadelphia commercial, 65
  - Rattermann, 62
  - Schenk, Jacob, 63
  - school reports, 61
  - Snyder, Mary, 64
  - Stevens, F. L., 64
  - thesis, 61
  - Vahlen, 61
  - Welsch, W., 63
  - Worthen, A. H., 64
- Music
  - courses, 382
  - degrees, conferred, 1920, 569
  - faculty, 382
  - fees, 113
  - for admission, 87
  - military band, 188, 201
  - organizations, 188
  - psychological basis for, courses in, 402
  - scholarships, 103, 107
- Music, School of
  - administrative officer, 16
  - admission to, 73
  - bachelor of music, degree of, 187
  - building, 57
  - choral and orchestral society, 188
  - clubs, 104
  - courses, 382
  - curriculums, 67, 187
  - established, 48
  - fees and expenses, 113
  - general statement, 187
  - graduation, requirements for, 187
  - Smith Memorial Hall, 57
- Mycology, course in, 279
- Mythology, classical, course in, 301
- Mythology, Norse, course in, 326
- Name of University changed, 47
- Narrative composition, course in, 322
- Natural history
  - building, 52
  - library, 62
  - Survey, 439
- Natural History Laboratory
  - merged into State Natural History Survey, 47
  - staff, 439
- Natural Resources and Conservation, Board of, 438
- Navigation, course in, 270
- Nelson fund, 49
- Nervous system, physiology of, course in, 397
- Neurology
  - courses in, 218, 219, 224
  - division of, courses in, 224
- Newspaper
  - courses in, 323
  - advertising, 282
- Nibelunglied, course in, 336
- North-Central Association, 198
- Northern Oratorical League, 93
- Norwegian, courses in, 325, 326
- Novel
  - English, courses in, 319, 320
  - French, courses in, 408, 410
  - Spanish, courses in, 409
- Number, theory of, course in, 363
- Nursery methods, course in, 348
- Nursing, course in, 345
- Nutrition
  - animal, courses in, 260, 262, 264
  - infant, course in, 344
  - physiology of, course in, 398
  - plant, course in, 352
- Observatory, astronomical, 53
- Obstetrics, courses in, 224
- Officers, administrative, 13
- Officers of instruction, 17
- Olericulture, course in, 352
- Omega Beta Pi, 103
- Omicron Nu, 103
- Operative dentistry, courses in, 243
- Ophthalmology, courses in, 226
- Oral pathology, courses in, 245
- Oratorical prize, 93
- Oratorical society, 103
- Orcharding, commercial, course in, 357
- Orchestral concerts, 96
- Order, accession, and shelf, course in, 357
- Order of the Coif, 103
- Ore and coal preparation, courses in, 379
- Ore concentration laboratory, course in, 380
- Ore plant design, courses in, 380
- Organ, courses in, 384, 386
- Organic chemistry, courses in, 229, 241, 288, 289, 292, 293, 294
- Organizations
  - general, 101
  - student committee on, 41
- Organogeny, vertebrate, course in, 415
- Oriental history, course in, 341
- Oriental languages and literature
  - faculty, 386
  - courses, 386
- Oriental Museum, 63
- Ornithology, courses in, 415, 416
- Orthodontia, dental, courses in, 246
- Orthopedics, course in, 271
- Otology, courses in, 220
- Overseas soldiers, first fund for, 112
- Painting, courses in, 269
- Paints, oils, turpentine, etc., courses in, 291
- Paleontology, 330, 331
- Pan Hellenic Association (girls'), 104
- Pan Hellenic Council (Men's), 104
- Parasitology, courses in, 417
- Partnership, course in, 355
- Pathology
  - courses in, 227, 242
  - dental, courses in, 245
  - plant, courses in, 277, 279
- Pattern work, course in, 368
- Peabody, Dr. S. H., regent, 47
- Pediatrics, division of, courses, 223
- Pen and Brush Club, 103
- Persuasion, course in, 325
- Petrography, courses in, 331
- Pharmaceutical chemistry, 289
- curriculum in, 132
- scholarship, 182
- Pharmaceutical chemist, degree of, 248
- Pharmacology, courses in, 228, 245
- Pharmacy loan fund, woman's, 111
- Pharmacy, School of
  - administrative officer, 16
  - admission to, 79, 249
  - advisory board, 11
  - buildings, 60
  - curriculums, 68
  - degrees, 248
  - entrance requirements, 249
  - equipment, 248
  - established, 48
  - faculty, 40
  - fees and expenses, 114, 250
  - founded, 48, 249
  - graduation, 248

- history, 248
- location, 248
- registration, state, 249
- students, list of, 564
- Phi Alpha Delta, 103
- Phi Beta Kappa, 102
- prize, 102
- Phi Delta Kappa, 103
- Phi Delta Phi, 103
- Phi Delta Psi, 104
- Phi Delta Theta, 104
- Phi Epsilon Pi, 104
- Phi Gamma Delta, 104
- Phi Kappa, 104
- Phi Kappa Psi, 104
- Phi Kappa Sigma, 104
- Phi Kappa Tau, 104
- Philadelphia Commercial Museum, gifts to collection, 65
- Phi Lambda Upsilon, 103
- Philological Club, 103
- Philology, comparative
  - courses in, 302
  - faculty, 302,
  - romance, courses in, 410
- Philomathean Literary Society, 102
- Philosophy
  - courses, 387
  - faculty, 386
  - library, 62
  - major and minors, 386, 387
- Phi Sigma Kappa, 104
- Photography
  - courses, 388
  - faculty, 388
- Phylogeny, animal, course in, 417
- Physical education for men, 202
  - courses in, 271, 388
  - faculty, 388
  - general statement, 202
  - officers, 14
  - scope of work, 202
- Physical education for women
  - courses in, 390
  - department of, 202
  - faculty, 390
- Physical geography
  - for admission, 88
- Physics
  - colloquium, 104
  - courses, 391
  - description of department, 148
  - engineering, curriculum in, 157
  - faculty, 391
  - for admission, 88
  - laboratory, 52
  - library, 62
  - major and minors, 391
  - soil, courses in, 256, 257
- Physiography, courses in, 330, 331
- Physiological chemistry, courses in, 228
- Physiology
  - courses in, 228, 229, 243, 271, 397
  - dental, courses in, 242
  - faculty, 397
  - for admission, 88
  - major and minors, 397
  - medical, courses in, 228
  - plant, courses in, 277, 278, 279
- Piano, courses in, 383, 385
- Pi Beta Phi, 104
- Pi Delta Upsilon, 103
- Pierrots, 104
- Pi Kappa Alpha, 104
- Pi Pi Rho, 104
- Pi Tau Sigma, 103
- Plant anatomy, histology and technic, course in, 277
- Plant development, course in, 279
- Plant breeding, courses in, 258
- Plant breeding, and vegetable greenhouses, 56
- Plant growing, course in, 348
- Plant houses, course in, 347
- Plant propagation, course in, 347
- Plato, course in, 300
- Plautus, course in, 301
- Pleading, course in, 355
- Playground instruction, course in, 212
- Plym Fellowship in Architecture, 94
- Poetry, courses in, 318
- Political science
  - courses in, 398
  - faculty, 398
  - library, 62
  - major and minors, 398
- Political Science Club, 103
- Pomology, courses in, 351, 352
- Population, courses in, 412, 413
- Portrait in oil colors, courses in, 269
- Poultry, courses in, 262, 264
- Power measurement, courses in, 367
- Power plant, 59
- Power plant design, course in, 367
- Practise court, 209
- Pragmatism, philosophy of, course in, 387
- Pre-legal curriculum, admission, 72
- Pre-medical curriculum, 72, 128
  - society, 103
- President of the University
  - duties of, 66
  - house of the, 59
  - office of the, 13
  - (See Kinley, David, in Index of Names)
- Press, law of the, course in, 324
- Press, University, 14, 421
- Printing, binding, and indexing, course in, 357
- Prizes, 94, 95, 211
  - architecture, 94
  - Bryan, 94
  - Guild Memorial, 94
  - Interscholastic Oratorical, 93
  - Law, 211
  - military, 95
  - Northern Oratorical League, 93
  - Phi Beta Kappa, 102
  - Plym, F. J., 94
  - public speaking, 93
  - St. Patrick's Day, 94
- Professional degrees in engineering, 177
- Professional schools, admission to, 16
  - Dentistry, College of, 78
  - Education, College of, 76
  - Law, College of, 77
  - Library School, 77
  - Medicine, College of, 77
  - Pharmacy, school of, 79
- Professional societies, 103
- Professors, list of, 17
- Property, courses in, 355, 356
- Prosthetic dentistry, courses in, 244
- Provost, office, 13
- Psi Upsilon, 104
- Psi Xi, 103
- Psychiatry, course in, 224
- Psychology Club, 103
- Psychology
  - courses in, 401
  - educational, courses in, 311, 312, 313
  - faculty, 401
  - laboratories, 62, 63
  - library, 62
  - major and minors, 401
- Pteridophytes, morphology of, course in, 279
- Publications of College of Education, 196
- Publications, 421
- Public address, course in, 325
- Public health, courses in, 352
- Publicity methods, course in, 324
- Public speaking
  - courses in, 324
  - faculty, 316
  - prizes, 93
  - society, 103
- Pumping station, 60
- Qualitative analysis, courses in, 287, 289, 290
- Quantitative analysis, courses in, 288, 294
- Quine Library of Medicine, 213
- Radio communication, courses in, 315
- Railway administration, course in, 413
  - curriculum, 138
  - faculty, 403
- Railway civil engineering, curriculum in, 158
- Railway Club, 104

- Railway construction and maintenance, courses in, 414
- Railway engineering  
 courses in, 403  
 description of department, 149  
 electrical  
   curriculum in, 158  
 equipment, 149  
 faculty, 403  
 library, 62  
 mechanical  
   curriculum in, 159
- Railway Engineering and Administration, School of, 199  
 courses in, 403, 413  
 curriculums, 68  
 established, 50  
 general statement, 199  
 office, 15
- Railway engineering inspection trip, 405
- Railway industries, advisory board, 12
- Railway operation, standards of, 414
- Railway organization, course in, 413
- Railway rate policy, course in, 414
- Railway terminal management, course in, 413
- Railway traffic administration, course in, 413
- Railway train service, course in, 413
- Railway transportation curriculum, 138
- Railway working, course in, 413
- Rattermann collection, 62
- Rea scholarships, 215
- Recognition by foreign universities, 132
- Reference work, courses in, 357
- Regent  
 acting, Dr. T. J. Burrill, 48  
 Gregory, Dr. J. M., 46  
 Peabody, Dr. S. H., 47
- Registrar's office, 13
- Registration  
 College of Medicine, 214  
 fee, 113  
 Summer Session, 204
- Religion, psychology of, course in, 401
- Republican club, 104
- Research graduate assistants in Engineering Experiment Station, 182
- Reserve Officers' Training Corps, 200
- Residence Hall, Woman's, 115
- Residence requirement, 90
- Rhetoric  
 courses in, 239, 321  
 dental, course in, 235  
 faculty, 316  
 for deficient students, 76  
 special examination in, 76
- Rhinology, courses in, 220
- Ricker Library of Architecture, 62
- Road construction, courses in, 296, 298
- Roentgenology, courses in, 246
- Romance Journal Club, 103
- Romance languages  
 courses in, 407  
 faculty, 406  
 Grober collection, 61  
 majors and minors, 407
- Romance philology, courses in, 410
- Roman life, literature, and history, courses in, 301, 337
- Romanticism, French, course in, 408
- Rome, history of, course in, 337
- Roofs, course in, 266
- Rooms and board, 115
- Ryerson, scholarships, 108
- Sachem, 103
- St. Patrick's Day Prize, 94
- Sales, course in, 353
- Salesmanship, course in, 282
- Salust, course in, 301
- Sanitary science, course in, 274
- Sanitation, building, courses in, 266
- Sanskrit, courses in, 302
- Scabbard and Blade, 103
- Scandinavian  
 club, 103  
 courses in, 325  
 faculty, 316
- Scarab, 103
- Scarab Medal in Architecture, 94
- Schenck, Dr. Jacob, gift to herbarium, 63
- Schiller, courses in, 334, 335
- Scholars, graduate, list of, 585
- Scholarships  
 agriculture, 106  
 ceramic engineering, 106  
 county, 105  
 dairy department, 109  
 general assembly, 105  
 graduate, 181  
 home economics, 106  
 law, 211  
 medicine, 215  
 military, 108, 201  
 Rea, 211  
 Ryerson and son, 108  
 Sharples, 109  
 Smith, T. J., 107  
 Summer Session, 204  
 undergraduate, 105, 106, 107, 108  
 School reports, collection of, 61
- Schools, accredited  
 admission from, 79  
 committee on, 41  
 list of, 79
- Science, for admission, 86
- Science, College of  
 (See College of Liberal Arts and Sciences)
- Science, domestic, for admission, 84
- Science group, museum and collections, 63
- Scientific Bureaus, 433
- Scribblers' Club, 104
- Secretaries, commercial and civic, curriculum, 136
- Seed inspection course, 257
- Seminar libraries, 62
- Senate, University, 17  
 committees of, 41  
 composition and duties of, 66
- Seneca, course in, 301
- Service buildings, 59
- Sewerage, courses in, 381, 382
- Shakespeare, courses in, 318, 319, 321
- Sharples prize scholarship, 108
- Sheep barn, 56
- Sheep husbandry, courses in, 260, 262
- Shi Ai, 103
- Shopwork, course in, 353, 354
- Short courses, 98
- Short courses in agriculture, 170  
 admission to, 170
- Short course for metermen, 150
- Shorthand and typewriting, for admission, 88
- Sigma Alpha Epsilon, 104
- Sigma Alpha Mu, 104
- Sigma Chi, 104
- Sigma Delta Chi, 103
- Sigma Delta Phi, 103
- Sigma Kappa, 104
- Sigma Nu, 104
- Sigma Phi Epsilon, 104
- Sigma Phi Sigma, 104
- Sigma Pi, 104
- Sigma Tau, 103
- Sigma Xi, 103
- Signal corps, courses in, 376
- Sketching, course in, 269
- Skull and Crescent, 104
- Smith-Lever Act, 425
- Smith Memorial Hall, 57
- Smith, Thomas J., scholarships, 107
- Snyder, Edward, loan fund, 110
- Snyder, Mrs. Mary S., gift to herbarium, 64
- Social hygiene board fellowships, 182
- Social hygiene, courses in, 230
- Socialism, course in, 308
- Social problems, 308  
 course in, 399
- Societies and clubs, 101
- Societies  
 departmental, 103  
 Greek letter, 104  
 honorary, 103  
 literary, 102  
 professional, 103

- Sociology  
   courses in, 411  
   faculty, 411  
   library, 62  
   major and minors, 411  
 Soil fertility, courses in, 253  
 Soil physics, courses in, 256, 257  
 Soils Research Club, 104  
 Soil section of Agricultural Experiment Station  
   advisory board, 12  
 Soldiers, overseas, fund for, 112  
 Sororities, 104  
 Sound, courses in, 393, 394  
 Spanish  
   courses in, 409, 410  
   for admission, 89  
   faculty, 406  
   major and minors, 407  
 Spanish-American relations, course in, 341  
 Spanish club, 103  
 Special examination fee, 113  
 Special students, 73, 119, 213  
 Specifications, course in, 267  
 Spenser, courses in, 320  
 Spherical geometry, for admission, 86  
 Spraying, course in, 348  
 Standing committees of the faculty, 41  
 Star course, 96  
 Statistics, theory of, course in, 363, 365  
 Steam and air machinery, course in, 366  
 Steam engineering, courses in, 366  
 Steel construction, courses in, 298  
 Stock farming, course in, 262  
 Stock judging, courses in, 260, 263, 264  
 Stock pavilion, 56  
 Stratigraphy, courses in, 331  
 Strong, Henry, loan fund, 111  
 Structural details, course in, 297  
 Structural stresses, course in, 297  
 Student assistants, list of, 31  
 Student Council, 101  
 Student list, 445  
 Students' Hospital Fund, 101  
 Student organizations and activities, committee on, 41  
 Students, foreign, admission of, 76  
 Student societies, 101  
 Summaries  
   degrees, 588  
   officers, 590  
   students, 592  
 Summarizing and briefing, course in, 322  
 Summer Session  
   administrative officer, 16  
   admission, 203  
   athletic coaches, courses for, 205  
   athletics, 206  
   1921, calendar, 7  
   courses, 68  
   (See under description of courses)  
   director, 16  
   executives, 203  
   fees, 204  
   general statement, 203  
   graduate work, 183, 204  
   lectures, 100  
   library science, courses in, 205  
   organized, 48  
   purpose, 203  
   registration, 204  
   scholarships, 204  
 Superintendent of business operation, office, 13  
 Supervising Architect, 14  
 Suretyship, course in, 355  
 Surfaces, algebraic, course in, 364  
 Surgery, courses in, 230, 231, 233, 234  
   oral, courses in, 245  
 Surveying, courses in, 295, 296, 297  
 Surveying, mine, course in, 380  
 Swedish, course in, 326  
 Swimming, courses in, 273, 390  
 Swine husbandry, courses in, 260, 262  
 Symphony concerts, 96  
 Tacitus, course in, 302  
 Tar, course in, 291  
 Tau Beta Pi, 103  
   lecture, 98  
 Tau Delta Tau, 104  
 Tau Kappa Epsilon, 104  
 Tax, mill, 50  
 Taxonomy, courses in, 277, 279  
 Teachers, appointment of, committee on, 197  
 Teacher training curriculum, 168  
 Teachers, high-school certification, 197  
 Technic of teaching, courses in, 311, 312, 313  
 Tennyson, course in, 321  
 Terence, course in, 301, 302  
 Textiles and clothing, courses in, 343  
 Thallophytes, morphology of, course in, 277  
 Theoretical and applied mechanics  
   courses in, 370  
   faculty, 369  
 Therapeutics, courses in, 228, 245  
 Thermodynamics, courses in, 366, 369, 395  
 Thesis collection, 61  
 Thesis requirements, 90  
 Theta Chi, 104  
 Theta Delta Chi, 104  
 Theta Phi Alpha, 104  
 Theta Sigma Phi, 103  
 Theta Tau, 103  
 Topography, mine, course in, 381  
 Torts, course in, 355  
 Toxicology, course in, 229  
 Track and field athletic coaching  
   courses in, 272, 273, 389  
 Transfer of credits, admission by, 76  
 Transportation Building, 55  
 Transportation  
   courses in, 413  
   faculty, 413  
 Trees and shrubs, courses in, 277, 349, 350  
 Trigonometry  
   courses in, 360, 365  
 Triangle, 103  
 Tribe of Illini, 103  
 Trigonometry, for admission, 89  
 Trustees, Board of, 10  
   committees, 10  
   officers, 10  
   reorganizations, of, 47, 51  
 Tuition fee, 113  
 Typewriting, for admission, 88  
 U. L. A. S., 103  
 Undergraduate  
   degrees conferred, 1920, 569  
   scholarships, 105  
 Undergraduates and professional students, list of, 461  
 Uniform deposit, 113  
 Unit, definition of, 69  
 United States  
   economic history of, course in, 307, 308, 309  
   financial history of, course in, 307  
   foreign commerce of, course in, 309  
   history of, courses in, 337  
 United States in the great war, course in, 340  
 University  
   bronze medals, 95  
   collections, 62  
   gold medal, 95  
   University Hall, 52  
   University Press, 421  
   established, 50  
   office, 14  
   Urbana, 45  
 Vahlen collection, 61  
 Variables, courses in, 362  
 Vectors, courses in, 364  
 Vegetable greenhouse, description, 56  
 Vegetables, growing of, courses in, 347, 350, 352  
 Ventilation, courses in, 367  
 Ventilation, mine, course in, 379  
 Vergil, courses in, 302  
 Versification, English, course in, 319  
 Vertebrates, courses in, 416  
 Vice-president, office, 13  
 Violin, courses in, 384  
 Violoncello, courses in, 384  
 Vivarium, 53  
 Vocational education, course in, 312  
 Vocational agriculture, projects of, courses in, 253

- Vogelweide, Walter, von der, course in, 336  
Voice, courses in, 383, 386  
**Water chemistry, courses in, 294**  
Water supply engineering, courses in, 381, 382  
Water Survey, 440  
    committee on, 440  
    established, 48  
    staff, 440  
    work, 440  
Weather and climate, course in, 333  
Weaving, course in, 344  
Welsch, Dr. W., gift to herbarium, 63  
Western History, Mason Library of, 62  
Wills, course in, 355  
Woman's building, 58  
Women, admitted to University, 47  
Women, Dean of, 14  
Women, physical education for, office, 14  
Women's Glee Club, 104  
Women's League, 101, 104  
Women's League loan fund, 110  
Women's pharmacy loan fund, 111  
Women's Residence Hall, 59  
    board and room in, 115  
Wood shop, 55  
Woodworking, course in, 354  
Worthen, A. H., gift to collection, 64  
Wrestling, course in, 271, 389  
**Yo Ma, 104**  
Young Men's Christian Association, 102  
Young Women's Christian Association, 102  
**Zeta Beta Tau, 104**  
Zeta Psi, 104  
Zeus, 104  
Zoology  
    club, 103  
    collections, 64  
    courses in, 240, 415  
    faculty, 414  
    for admission, 89  
    major and minors, 414



















UNIVERSITY OF ILLINOIS-URBANA



3 0112 084224911